# REMEDIAL INVESTIGATION WORK PLAN

# FOR

# 1200 JEFFERSON AVENUE SITE
# BCP SITE NO. C915346
# 1200 JEFFERSON AVENUE
# CITY OF BUFFALO, ERIE COUNTY, NEW YORK

**Prepared by:**


**C&S ENGINEERS, INC.**
141 ELM STREET, SUITE 100
BUFFALO, NEW YORK 14203


**Prepared on Behalf of:**

**1200 JEFFERSON PROPERTIES, LLC.**
647 MAIN STREET SUITE 200
BUFFALO, NEW YORK 14203

**NOVEMBER 2021**

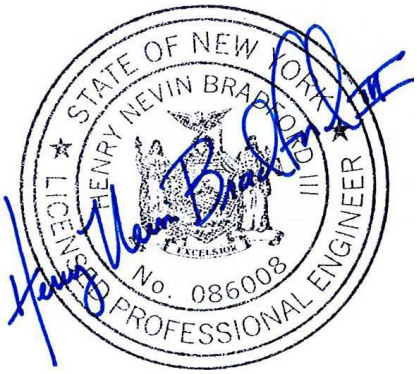
## Certification

I, Nevin Bradford, P.E., certify that I am a NYS registered professional engineer and this Remedial Investigation (RI) Work Plan for the 1200 Jefferson Avenue Site was prepared in accordance with all applicable statutes and regulations and in substantial conformance with DER Technical Guidance for Site Investigation and Remediation (DER-10).

11/12/2021

Name Date

License No: 086008



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# 1 INTRODUCTION

This document presents the proposed scope of work and implementation procedures for completion of a Remedial Investigation (RI) at the 1200 Jefferson Avenue Site (Site), located at 1200 Jefferson Avenue, Buffalo, New York (see Figures 1 and 2).

1200 Jefferson Properties, LLC, has elected to pursue cleanup and redevelopment of the Site under the New York State Brownfield Cleanup Program (BCP). 1200 Jefferson Properties, LLC application was accepted and the NYS Department of Environmental Conservation (DEC) Brownfield Cleanup Agreement (BCA) was executed in August 2020.

The RI will be completed by C&S Engineers, Inc. (C&S) on behalf of 1200 Jefferson Properties, LLC. The work will be completed in accordance with NYSDEC DER-10 guidelines.

## 1.1 Site Background

The Site consists of a 0.93-acre parcel, located on the western side of Jefferson Avenue, bordered by Eaton Street to the north and Northampton Street to the south. The Site includes one (1) existing building on the southern portion of the Site and vacant grass covered area to the north, and asphalt covered alleyway on the west side.

Historic on-Site operations include dry cleaning and laundry service(s), automobile transportation and repair service, paint and varnish shop, metal works shop since at least the1910's. At least three (3) underground storage tanks (USTs) have been installed on-Site, with municipal records indicating an 8,000-gallon UST which is closed-in-place beneath the existing building.

The Site was identified in the NYSDEC Chemical Bulk Storage (CBS) database (9-000157) and the NYSDEC Spill database with 8902796, 9305238, 9501902, and 1710381 identified for the Site. Spill No. 1710381 remains open and will be investigated as part of the RI Work Plan.

Previous environmental investigations completed at the Site have identified grossly contaminated petroleum soils proximate to both tank locations (see Figure 3). Elevated chlorinated volatile organic compounds (cVOCs) exceeding 6NYCRR Part 375 Protection of Groundwater Soil Cleanup Objectives (PGSCOs), Unrestricted Use SCOs (USCOs), and Restricted-Residential Use Soil Cleanup Objectives (RRSCOs), and groundwater impacts exceeding NYSDEC Class GA Groundwater Quality Standards (GWQS) likely related to former dry-cleaning operations. Petroleum VOCs at concentrations exceeding USCOs and RRSCOs were identified at numerous locations. Elevated metals exceeding USCOS, RRSCOS, Commercial Use SCO (CSCOs) and Industrial Use SCOs (ISCOs) were also identified in soil-fill identified across the Site (see Table 1 and Figure 3).

## 1.2 Project Objectives

For sites entering the BCP at the point of investigation, NYSDEC requires completion of a RI. The primary objectives of this RI are to:

- Collect additional media samples, under appropriate quality assurance/quality control criteria, to better delineate the nature and extent of contamination; and determine if contamination has and/or potential to migrate off-site,
- Determine if the concentrations of constituents of concern in site soil, groundwater, and/or soil gas pose potential unacceptable risks via on-site and off-site qualitative exposure assessment in accordance with DER-10 Appendix 3b; and,
- Provide the data needed to evaluate potential remedial measures and determine appropriate actions to address potential significant risks.

As part of the RI, sampling data will be used to evaluate whether remedial alternatives can meet the site cleanup objectives. The intended uses of these data dictate the confidence levels. Two (2) data confidence levels will be employed in the RI: screening level data and definitive level data. In general, screening level confidence will apply to field measurements, including photoionization detector (PID) measurements, groundwater elevation measurements, and field analyses (i.e., pH, temperature, dissolved oxygen, specific conductivity, and turbidity). Definitive level confidence will apply to samples for chemical analysis. The applicability of these levels of data will be further specified in the Quality Assurance Project Plan (QAPP) in Section 5.0. Sampling and analytical acceptance and performance criteria such as precision, accuracy, representativeness, comparability, completeness, and sensitivity, are defined in the QAPP.

The final remedial objectives for the Site will be evaluated in the Alternatives Analysis Report (AAR) based on the findings of the RI.

## 1.3 Project Organization and Responsibilities

1200 Jefferson Properties, LLC, is the site owner and has been accepted into the NYS BCP. C&S will complete the RI and manage the brownfield cleanup on behalf of the owner. C&S will also be responsible to verify and certify that the brownfield remedial action was completed in conformance with the approved work plan(s) and NYSDEC DER-10 requirements.

# 2 SUMMARY OF ENVIRONMENTAL CONDITIONS

## 2.1 General

The Site is located on the western side of Jefferson Avenue and is bordered by Eaton Street to the north, Northampton Street to the south, and an urban farm/garden and residential buildings to the west. The Site currently consists of one (1) commercial mixed-use office, storage and religious, with vacant portion of the existing building, asphalt paved alleyway on the west side and vacant grass covered area to the north (see Figure 2).

The Site is currently used as a general repair shop for a property management company. The shop comprises 8,900 sq. ft. of the total building space. All other areas of the building, including the former Zee's property services (10,800 sq. ft. over two floors), a former taxi company (3,300 sq. ft.), and religious space (1,850 sq. ft), are currently vacant. The property management company operates 5 days of a week, up to 8 hours per day, generally during normal business hours.

## 2.2 Site Topography and Drainage

The Site is generally flat with limited topographic features. The surface is covered by the existing building, asphalt/gravel covered areas in the southwest, and grass covered areas, with former building foundations visible, in the northern portion of the Site. Precipitation (i.e., rain or melting snow) moves to the storm drains from the building downspouts and in the roadways via overland flow. Surface and shallow groundwater flow are likely affected by various cycles of development and filling, as well as utilities along Jefferson Avenue, Eaton Street, and Northampton Street.

## 2.3 Geology and Hydrogeology

### 2.3.1 Overburden

According to the U.S. Department of Agriculture (USDA) Web Soil Survey, site soils are generally characterized as Urban Land (Ud) with the majority of the Site consisting of Schoharie and Claverack complexes and a small portion consisting of Odessa complex (Uu, Uk, and Ut, respectively). These complexes consist of nearly level land with at least 60 percent urban land that is covered by concrete, asphalt, buildings, or other impervious structures typical of an urban environment. Native soils typical of the Odessa and Schoharie type consists of silty clays while soils of the Claverack type consist of silty loam. These soil complexes are classified in the hydrologic soil group C/D and range from moderately well to somewhat poorly drained. The presence of overburden fill is widespread and common throughout the City of Buffalo. Previous investigations identified urban fill material ranging in depth from 0-10 feet below ground surface (fbgs), underlain by sand and clay to varying depths ranging between 4-12 fbgs. The geology of the Site will be further investigated as part of the RI activities. Multiple former building structures are present in the northern portion of the Site, as evidence by former foundation walls and subgrade structures identified during the previous investigations.

### 2.3.2 Bedrock

Based on the bedrock geologic map of Erie County, the Site is situated over the Onondaga Formation of the Middle Devonian Series. The Onondaga Formation is comprised of a varying texture from coarse to very finely crystalline with a dark gray to tan color and chert and fossils within. The unit has an approximate thickness of 110 to 160 feet.

Bedrock depth has not been assessed on-Site. Bedrock depths on nearby sites has ranged from 30-32 fbgs.

### 2.3.3 Hydrogeology

The Site is located within the Lake Erie-Niagara River major drainage basin, which is typified by little topographic relief, except in the immediate vicinity of major drainage ways. In the Erie-Niagara Basin, the major areas of groundwater are within coarser overburden deposits and limestone and shale bedrock. Regional groundwater appears to flow north towards Scajaquada Creek and/or to the west towards the Niagara River and Lake Erie. Local groundwater flows are likely influenced by subsurface features, such as utilities and localized subgrade development conditions.

Previous investigations identified perched overburden water at depths ranging from 2-6 fbgs, including beneath the existing building. Localized on-Site groundwater flow will be investigated during the RI.

## 2.4 Climate

The City of Buffalo has a cold continental climate, with moisture from Lake Erie causing increased precipitation. Average annual precipitation reported is 40.5 inches, with snowfall average of 94 inches. Average temperature is 48.3 degrees Fahrenheit. The ground and lakes typically remain frozen from December to March. Winds are generally from the southwest (USClimateData.com).

## 2.5 Population and Land Use

The City of Buffalo, encompassing 40.38 square miles, has a population of 261,310 (2010 US Census Bureau). The Site is in Census Tract 168, in an area of the City zoned for commercial and residential use. The current zoning per the City of Buffalo Green Code for the Site is N-3E and N-3R which are defined as Neighborhood Center: mixed-use commercial and residential areas with a mix of housing types and commercial uses.

## 2.6 Utilities and Groundwater Use

The subject property has access to all major public and private utilities, including potable water (Buffalo Water Authority), sanitary and storm sewers (Buffalo Sewer Authority), electric (National Grid), and natural gas (National Fuel Gas).

Groundwater at the Site is assigned Class “GA” by 6NYCRR Part 701.15. Currently, there are no deed restrictions on the use of groundwater at the Site; however, there are no groundwater supply wells on the property. Regionally, groundwater in the area has not

been developed for industrial, agriculture, or public supply purposes. Municipal potable water service is provided to this area of the City.

## 2.7 Wetlands and Floodplains

There are no State or Federal wetlands or floodplains located on Site or adjacent to the Site.

## 2.8 Environmental Reports

A summary of the investigations that have occurred at the Site are presented below and included electronically in Appendix A.

### 2.8.1 Phase I Environmental Site Assessment – March 2018

TurnKey Environmental Restoration, LLC (TurnKey) completed a Phase I Environmental Site Assessment (ESA) for 1200 Jefferson Avenue and Associated Parcels, Buffalo, New York in March 2018. Below is a summary of the Recognized Environmental Concerns (RECs) as they relate to the 1200 Jefferson Avenue Site.

- Dry cleaning and laundry operations were identified on-Site in the existing building since at least the 1950's.
- Automobile repair and painting operations were identified on-Site since at least the 1920s.
- Multiple USTs were identified on-Site since at least the 1950s. Municipal records indicate that an 8,000 gal. UST was closed in-place beneath the existing building.
- Multiple NYSDEC Spill Incidents were identified for the Site (Nos. 8902796, 9305238 and 9501902), including one related to leaking USTs.
- An existing brick exhaust tower (stack). The vent stack is considered a REC due to the potential for remaining ash within the unit.
- Electronic wastes (i.e., light ballasts possibly containing PCBs) are considered RECs as such will require proper off-site disposal.
- The potential for miscellaneous urban fill materials exists on-Site due to its urban location and as former building areas have been brought to grade. The presence of urban fill material from unknown sources is considered a REC due to the potential for impacts. Historic adjacent automotive repair and gasoline station operations are considered RECs due to the potential for environmental impacts.

### 2.8.2 Limited Phase II Environmental Investigation Report – April 2018

TurnKey completed a Limited Phase II Environmental Investigation on the Site in April 2018. Twenty-two (22) soil borings were completed across the Site (designated SB-1 through SB-22). Two (2) soil borings (SB-1 and SB-11) were converted into a temporary monitoring well (designated TMW-1 and TMW-2) for groundwater sampling. Findings of the Phase II are detailed below:

- Grossly contaminated petroleum soils were detected on Site, including visual product on the soil cutting sleeve at SB-11 (downgradient of closed in-place 8,000-gallon UST), odors and elevated PID readings at four (4) locations.
- Elevated chlorinated VOCs, likely related to the former dry-cleaning operations onsite, were detected in soil samples exceeding Protection of Groundwater SCOs.
- Elevated petroleum VOCs were detected in soil samples exceeding USCO and RRSCOs at several locations.
- Elevated chlorinated VOCs were detected in groundwater samples exceeding groundwater quality standards (GWQS), including tetrachloroethene (PCE), trichloroethene (TCE), dichloroethene (DCE) and vinyl chloride (VC).
- Shallow fill material, including brick, block, cinders and ash were detected across the site, ranging in depth from 0-10 fbgs.
- Elevated metals, including arsenic, barium, and chromium were detected in soil exceeding ISCOs, CSCOs, and RRSCOs, respectively. Elevated lead and mercury were detected above USCOs at multiple locations.
- Based on the presence of elevated chlorinated VOCs exceeding SCGs in soil and groundwater, including beneath the existing building and downgradient location, indicates the likely presence of dry-cleaning related contamination beneath the existing building.
- Based on the findings of this investigation, additional investigation and remediation appears warranted prior to Site redevelopment. TurnKey recommended completing a Soil Vapor Intrusion (SVI) assessment of the existing building, based on the presence of chlorinated VOCs in soil and groundwater beneath the building.
- Based on results of the Limited Phase II investigation, Spill No. 1710381 was issued with the NYSDEC and is currently classified as “open.”

#### 2.8.3 Supplemental Site Investigation Report – December 2018

A Supplemental Site Investigation was conducted in December 2018 to further asses the identified VOC and metals impacts on-Site. The supplemental investigation included interior soil borings to further assess former dry-cleaning related contamination beneath the existing building, and completion of additional exterior soil investigation to further assess metals impacted soil-fill identified on-Site. Findings of the Phase II are detailed below:

- Evidence of chlorinated VOCs (dry-cleaning related chemicals) contamination in soil and groundwater was detected beneath the existing building that will require additional investigation and remediation.
- Evidence of fill materials with elevated metals was identified across the Site.

Previous investigation locations and findings are shown on Figure 3. Previous Investigation reports are provided electronically in Appendix A.

## 2.9 Primary Constituents of Potential Concern (COPCs)

Based on findings to date, the Constituents of Potential Concern (COPCs) are presented by media below:

- **Soil:** petroleum and chlorinated VOCs, and metals
- **Groundwater:** petroleum and chlorinated VOCs
- **Soil Vapor:** chlorinated VOCs

# 3 REMEDIAL INVESTIGATION SCOPE OF WORK

The RI scope of work is focused on defining the nature and extent of contamination on-site, identifying the source of contamination, defining chemical constituent migration pathways, qualitatively assessing human health and ecological risks (if necessary), and obtaining data of sufficient quantity and quality to perform the alternatives analysis report.

Field team personnel will collect environmental samples in accordance with the rationale and protocols described in the QAPP in Section 4. The United States Environmental Protection Agency (USEPA) and NYSDEC-approved sample collection and handling techniques will be used. Samples for chemical analysis will be analyzed in accordance with USEPA SW-846 methodology with an equivalent Category B deliverable package to meet the definitive-level data requirements. Analytical results will be evaluated by a third-party data validation expert in accordance with provisions described in the QAPP. Data submittals will be provided to the NYSDEC in accordance with the most current electronic data deliverables (EDD) protocols.

During intrusive RI activities, a Community Air Monitoring Plan (CAMP) will be followed. The CAMP is consistent with the requirements for community air monitoring at remediation sites as established by the NYSDOH and NYSDEC. Accordingly, it follows procedures and practices outlined under NYSDEC's DER-10 (May 2010) Appendix 1A (NYSDOH's Generic Community Air Monitoring Plan) and Appendix 1B (Fugitive Dust and Particulate Monitoring).

The investigation approach is described below. The proposed RI sample locations are presented on Figure 4 and Figure 5, and the planned sampling and analytical program is identified on Table 3.

## 3.1 Preparation Activities

### 3.1.1 Utility Clearance

Prior to any intrusive activities, Dig Safely New York (Call 811) will be contacted by the site contractor a minimum of three business days in advance of the work and informed of the intent to perform excavation work at the Site. If underground utilities are present on the property and are anticipated to interfere with intrusive activities, the Applicant and the NYSDEC will be contacted to discuss mitigating measures.

## 3.2 Interior Building Inspection and Inventory

An assessment of the building interior will be completed to inspect for features including floor drains, trenches, sumps, in-ground lifts, staining, and the presence of stored regulated/hazardous materials to guide potential areas for investigation. Based on the findings of the interior assessment, the planned RI approach will be reviewed with the Department. Locations of the interior soil borings and sub-slab vapor sample locations may be adjusted, with concurrence from the Department, based on the findings of the building assessment.

#### 3.2.1 Interior Underground Storage Tank Assessment

Historic municipal records indicate that an 8,000-gallon UST was closed in-place beneath the building slab. The approximate location is shown on Figure 4 per the previous investigation reports.

Interior demolition of existing partition walls and office space will be required to access the suspected area of the tank. Once interior demolition is complete, soil borings will be advanced in the vicinity of the tank determine presence of the historic tank and assess surrounding soils. Soil boring details are provided below.

## 3.3 RI Soil/Fill Investigation

A soil/fill investigation will be completed across the Site to further assess whether additional impacts exists beyond the limits of, and to assess the extent of, identified contamination. The soil/fill investigation will include the collection of shallow and deeper ranging soil/fill samples. The soil/fill investigation will consist of shallow surface soil/fill, and test pits and soil borings to allow for characterization of subsurface soil/fill material and sample collection. The proposed RI sample locations are presented on Figure 4 and the sampling and analytical program is presented on Table 3.

#### 3.3.1 Surface and Near-Surface Soil/Fill Investigation

The grass covered northern area of the Site historically included several buildings, as evidenced by the presence of former foundations and intermingled fill material being visible at the surface. As such, the objective of the surface soil/fill sample is to assess the potential exposure to humans and the objective of the near-surface soil/fill sampling is to characterize the upper two-feet to determine future remedial requirements (e.g., future cover system).

A total of four (4) surface soil/fill samples and four (4) near-surface soil/fill samples, identified as SS-1 through SS-4, will be collected from the upper 0-2 inches and 0-2 feet, respectively, of soil/fill in the grass covered northern portion of the Site (see Figure 4). Surface and near-surface soil/fill samples will be collected via decontaminated hand auger.

#### 3.3.2 Subsurface Soil/Fill Investigation

A total of 22 subsurface soil/fill exploratory locations are planned across the Site, including six (6) test pits and sixteen (16) soil borings across the Site. The RI test pits, identified as TP-8 through TP-13, will be completed across the exterior of the Site to characterize subsurface soil/fill (see Figure 4). Each test pit will be advanced to an approximate depth of 12 to 14 fbgs, the extent of the excavator arm, or to depth which on-Site soil conditions safely allow (e.g. utilities and/or property boundaries). Excavated TP spoils will be placed on the ground next to the TP location, and once complete will be placed back into the TP in general order in which it was removed.

The interior soil borings (SB), identified as SB-30 through SB-35 and SB-38, will be advanced to collect soil samples from beneath the building slab in the approximate locations shown on Figure 4. Interior SBs will be advanced to a planned depth of 12-16

fbgs, at least five feet into the upper water bearing zone, or until equipment refusal, whichever is shallower. If field evidence indicates the presence of contamination at completion depths, the soil borings will be continued deeper, in the absence of a confining layer, to delineate contamination depth.

Planned soil borings SB-36 and SB-37, in association with MW-4 and TP-13 are located to delineate the previously identified petroleum contamination in SB-11. Based on the field findings, locations may be adjusted, and/or additional locations may be added

Five (5) soil boring/monitoring wells, identified as MW-1 through MW-5, will be advanced to collect soil samples and allow for the installation of groundwater monitoring wells. Soil samples collected from the monitoring well soil borings will be collected from the screened interval so a comparison of soil and groundwater data may be completed. This interval may or may not include native soils, so multiple samples may be taken from each boring depending on site conditions.

All soil samples will be field screened for the presence of volatile organics using a calibrated photoionization detector (PID), as a procedure for ensuring the health and safety of personnel at the Site. Upon reaching the completion depth of each location, field visual/olfactory and PID results will be reviewed. A PID with an 11.7 eV bulb will be used for soil/fill investigation activities.

### 3.3.3 Soil/Fill Sample Collection and Analysis

Table 3 summarizes the proposed RI sample collection and analytical program. The soil samples will be collected to further delineate the horizontal and vertical extent of the known contamination and determine if other impacts requiring remediation are present at the Site. The sample interval identified as the most impacted (i.e., greatest PID scan result and/or visual/olfactory evidence of impact) at investigation locations will be selected for laboratory analysis. If either the impacts are ubiquitous from grade to final depth or no impacts are identified, the soil/fill directly above water table will be selected for analysis. If the impacts are ubiquitous from grade to final depth or no impacts are identified, and water is not encountered at a particular sample location, the sample interval will be selected based on the professional discretion of the field personnel and in consultation with the NYSDEC. Concerning RI soil/fill sample locations in the vicinity of the former dry-cleaning operations, if impacts are ubiquitous from grade to final depth, regardless of the presence of water, the sample interval will be collected from the final depth interval. If differentiable impacts are noted during the investigation, additional samples will be collected to characterize the material.

Soil samples will be collected and analyzed for Target Compound List (TCL) plus CP-51 List VOCs, TCL semi-volatile organic compounds (SVOCs), Target Analyte List (TAL) metals, polychlorinated biphenyls (PCBs), pesticides, herbicides, and per- and polyfluoroalkyl substances (PFAS) via EPA Method 537.1. Tentatively identified compounds (TICs) will be reported for VOCs and SVOCs. En-core samplers will be used to collect RI VOC soil samples. Remaining samples will be collected and placed into pre-cleaned laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory. Soil samples will be analyzed in accordance with the Sampling and Analysis Plan (SAP) presented on Table 3.

## 3.4 Groundwater Investigation

Five (5) groundwater monitoring wells, identified as MW-1 through MW-5 and three (3) temporary groundwater monitoring well, identified as SB-35/TMW-5, SB-38/TMW-6, and SB-32/TMW-7, will be advanced to allow for assessment of groundwater quality and flow. Proposed groundwater monitoring well locations are shown on Figure 4. Monitoring well installation and groundwater sample collection details are discussed in the following sections.

### 3.4.1 Monitoring Well Installation

Each monitoring well boring will be advanced to a target minimum depth of five feet below the first encountered water. Based on the findings of the previous investigations, well depths are estimated to be approximately 15-20 fbgs. Final depth and placement of wells will be based on the site soil type identified and hydrogeology, and consideration of potential contaminants (e.g., confining clay layer in the former dry-cleaning area, if encountered). All non-dedicated drilling tools and equipment will be decontaminated between boring locations using potable tap water and a phosphate-free detergent (e.g., Alconox).

Each well will be constructed with two (2)-inch diameter Schedule (SCH) 40 PVC with a minimum five (5)-foot flush joint SCH 40 PVC 0.010-inch machine-slotted well screen. Each well screen and attached riser will be placed at the bottom of the borehole and a silica sand filter pack (size #0) will be installed from the base of the well to a minimum of two (2)-feet above the top of the screen. A seal (e.g. bentonite chip) will then be installed to mitigate the potential for downhole contamination. The newly installed monitoring wells will be completed with keyed-alike locks, a lockable J-plug, and protective casing/road box.

The interior temporary monitoring well will be a one-inch diameter monitoring well installed in a similar manner discussed above.

Each temporary monitoring well will remain in place at the Site until remediation is initiated.

### 3.4.2 Well Development

After installation, but not within 24 hours, the newly installed monitoring wells will be developed in accordance with C&S and NYSDEC protocols. Development of the monitoring wells will be accomplished with dedicated bailers via surge and purge methodology. Field parameters including pH, temperature, turbidity, dissolved oxygen (DO), oxidation-reduction potential (ORP) and specific conductance will be measured periodically (i.e., every well volume or as necessary) during development. Field measurements will continue until they became relatively stable. Stability will be defined as variation between measurements of approximately 10 percent or less with no overall upward or downward trend in the measurements. A minimum of three (3) well volumes will be evacuated from each monitoring well. Development water from the monitoring wells will be containerized in drums and properly labeled. Based on the RI groundwater analytical results, it will be determined in consultation with the Department, if the containerized development water

is acceptable for surface discharge or requires subsequent on-Site treatment and/or off-Site disposal.

### 3.4.3 Groundwater Sample Collection

Groundwater samples will be collected a minimum of 24-hours after well development. Prior to sample collection, static water levels will be measured and recorded from the on-Site monitoring wells to facilitate the preparation of a Site-wide isopotential map. Following water level measurement, field personnel will purge (if necessary) and sample monitoring wells using a submersible pump with dedicated pump tubing following low-flow/minimal drawdown purge and sample collection procedures. In the event of pump failure or the saturated unit does not permit the proper implementation of low-flow sampling, a dedicated polyethylene bailer will be used to sample the well. Prior to sample collection via low-flow methodology, groundwater will be evacuated from each well at a low- flow rate (typically less than 0.1 L/min) while maintaining a generally consistent water level. Field measurements for pH, temperature, turbidity, DO, ORP, specific conductance and water level, as well as visual and olfactory field observations will be periodically recorded and monitored. Low-flow purging will be considered complete when field parameters stabilize and when turbidity measurements fall below 50 Nephelometric Turbidity Units (NTU) or become stable above 50 NTU regardless of volume purged. Purging via disposable bailer, if necessary, will be considered complete following the removal of three (3) well volumes and field parameter stabilization or to dryness, whichever occurs first. In general, stability is defined as variation between field measurements of 10 percent or less and no overall upward or downward trend in the measurements. Upon stabilization of field parameters, groundwater samples will be collected and analyzed as discussed below.

Groundwater sampling methods will conform to protocol acceptable for the collection of the per- and poly-fluoroalkyl substances (PFAS) in accordance with the Department's June 2021 Guidance for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs.

Sample collection methods that will be implemented during the RI include:

- Submersible Pump with Dedicated Pump Tubing

  Monitoring wells will be purged and sampled using a non-dedicated submersible pump and dedicated pump tubing following low-flow (minimal drawdown) purge and sample collection procedures, as described above. Non-dedicated pumps will require decontamination prior to use at each well location and the collection of an equipment blank.

- Polyethylene Disposable Bailer

  If low flow is not feasible (e.g., due to depth to groundwater), wells of any depth (up to 100 fbgs) may be purged and sampled using a polyethylene disposable bailer via direct grab. In general, a bottom filling dedicated polyethylene bailer is attached to a length of dedicated hollow-braid polypropylene rope and lowered into the well smoothly and slowly as not to agitate the groundwater or damage the well. Purging continues until a predetermined volume of water has been removed

(typically three (3) well volumes) or to dryness. Measurements for pH, temperature, specific conductance, dissolved oxygen and turbidity are recorded following removal of each well volume. The well is purged until the readings for indicator parameters stabilize or the well is purged to dryness.

Prior to, and immediately following collection of groundwater samples, field measurements for pH, specific conductance, temperature, dissolved oxygen, turbidity and water level, as well as visual and olfactory field observations will be recorded. All collected groundwater samples will be placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to a NYSDOH-approved laboratory for analysis.

#### 3.4.4 Groundwater Sample Analysis

The five (5) groundwater wells will be sampled for TCL plus CP-51 List VOCs, TCL SVOCs, TAL Metals, PCBs, pesticides herbicides, and per- and polyfluoroalkyl substances (PFAS) (see Table 3). The interior temporary monitoring wells will be sampled for TCL plus CP-51 List VOCs and TCL SVOCs only. Groundwater samples will be collected and analyzed in accordance with USEPA SW 846 methodology with equivalent NYSDEC Category B deliverables to allow for independent third-party data usability assessment.

Two (2) monitoring well locations (one (1) upgradient and one (1) downgradient based on the RI gauging) will be selected for 1,4-dioxane and PFAS sampling. Samples collected for 1,4-dioxane will be analyzed via EPA Method 8270 Selective Ion Monitoring (SIM) mode and samples collected for PFAS analysis will be analyzed via EPA Method 537.1 to achieve reporting limits of 2 nanograms per liter (ng/l).

### 3.5 Sub-Slab Vapor Investigation

To evaluate the potential vapor intrusion into the existing building, three (3) sub-slab vapor (SSV) samples, three (3) interior ambient air samples, and one outdoor ambient air (i.e., background) sample will be collected. One duplicate SSV sample will be collected for each day of SSV sampling. The sampling will be completed in general conformance with the New York State Department of Health (NYSDOH) Soil Vapor Intrusion Guidance (October 2006, and subsequent revisions). Soil vapor samples will be collected and sent to a NYSDOH ELAP-approved laboratory for analysis via USEPA Method TO-15. The Sub-Slab Vapr Investigation will be completed within the heating season consistent with NYSDOH Guidance. The proposed sampling locations with respect to current uses and building partitions at the Site are presented on Figure 5.

#### 3.5.1 Sub-Slab Vapor Pre-Sample Assessment

Prior to initiation of SSV sampling, a pre-sampling inspection will be performed prior to each sampling event to identify and minimize conditions that may interfere with the proposed testing. The inspection will evaluate the type of structure, floor layout, airflows and physical conditions of the building. This information, along with information on sources of potential indoor air contamination, will be identified on a building inventory form.

### 3.5.2 Sub-Slab Vapor Sample Collection

At each SSV sampling location, C&S personnel will drill a hole through the concrete slab using a hand-held hammer drill. Temporary sub-slab vapor probes and tubing will be used for the sample collection. Holes in the concrete slab will be filled and sealed after completion of the sampling event. Sub-slab vapor samples will be collected in the following manner:

- The sub-slab vapor sample tubing will be sealed to the surface with permagum grout, melted beeswax, putty, or other non-VOC containing and non-shrinking products for temporary installation;
- Verify sub-slab sampling point seal integrity using tracer gas (e.g. helium) per FOP.
- Purge approximately one to three volumes (i.e., the volume of the sample probe and tube) prior to collecting the samples to ensure samples collected are representative;
- Flow rates for both purging and collecting will not exceed 0.2 liters per minute to minimize outdoor air infiltration during sampling;
- Sub-slab vapor sample canisters will be equipped with an eight-hour regulator to allow the sample to be collected over an approximate eight-hour period; and,
- Samples will be collected, using conventional sampling methods, in laboratory provided sampling container (e.g., low flow rate; Summa® canisters if analyzed by EPA Method TO-15).

Concurrent with the sub-slab samples, indoor ambient air and outdoor air samples will be collected. Indoor ambient air samples will be collected adjacent to each sub-slab vapor location based upon accessibility within the building. One outdoor, field located air sample will also be collected from a ground level location upwind of the facility, as determined on the day of sub-slab vapor sampling field activities. Indoor and outdoor air sample canisters will also be equipped with an eight-hour regulator to allow the sample to be collected over the same approximate eight-hour period as the sub-slab vapor samples.

Each canister, with an initial pressure of approximately 50 millitorr (compared to 760 torr of pressure in the atmosphere at sea level), will be fitted with a sampling valve that uses a critical orifice and mass flow controller to regulate the air flow into the canister for the selected sampling period. The mass flow controller will maintain a relative constant air flow rate throughout the sampling period. All Summa canister valves will remain closed until the sample holes are complete and all of the canisters are in their respective positions. The valves will then be opened for the designated collection period.

### 3.5.3 Sub-Slab Vapor Sample Analysis

Soil vapor samples will be collected in Summa® canisters, and once filled will be transported under chain-of-custody command to a NYSDOH ELAP-approved laboratory for analysis of USEPA TCL VOCs with USEPA Method TO-15. Samples will be analyzed in accordance with the NYSDOH SVI Guidance, typically with a minimum reporting limit of 1 microgram per cubic meter (1 ug/m3) or less is sufficient for most analytes. Field documentation of sub-slab vapor investigation sampling activities will be recorded.

## 3.6 Field Specific Quality Assurance/Quality Control Sampling

In addition to the soil/fill, air, and groundwater samples described above, field- specific quality assurance/quality control (QA/QC) samples will be collected and analyzed to ensure the reliability of the generated data as described in the QAPP (see Section 4.0) and to support the required third-party data usability assessment effort. Site-specific QA/QC samples will include matrix spikes, matrix spike duplicates, blind duplicates, and trip blanks.

## 3.7 Decontamination and Investigation-Derived Waste Management

Every attempt will be made to use dedicated sampling equipment during the RI, however if non-dedicated equipment is required and/or used, the equipment will be decontaminated, at a minimum, with a non-phosphate detergent (i.e., Alconox®) and potable water mixture, rinsed with distilled water, and air-dried before each use in accordance. All decontaminated sampling equipment will be kept in a clean environment prior to sample collection. Heavy equipment, such as an excavator (if used) and drilling tools, will be decontaminated by the subcontractor, as necessary.

RI generated drilling spoils or other Investigative- Derived Waste (IDW) not exhibiting gross contamination (i.e., visible product, odor, sheen, etc.) will be either returned to the borehole from which it was removed (soil/fill) and/or staged on site in appropriate container or plastic covered pile. IDW materials exhibiting gross contamination as well as all groundwater will be placed in sealed NYSDOT-approved drums and labeled for subsequent characterization. All generated IDW drums will be labeled alpha-numerically with regard to contents, origin, and date of generation using a paint stick marker on two (2) sides and the top of each drum. Characterization analytical results of containerized IDW material will be used to determine if spoils can be returned to the ground surface, utilized on-Site, or require treatment and/or off-Site disposal. Drums will be securely staged on-site pending characterization analyses and remedial measures assessment. Field personnel will coordinate the on-site handling and temporary storage of IDW drums, including transportation, characterization sampling, and offsite disposal arrangements, as necessary.

Drilling decontamination, development, and purge fluids will be collected, containerized, sampled and disposed consistent with DER-10.

Discarded personal protective equipment (PPE) (i.e., latex gloves, Tyvek, paper towels, etc.) and disposable sampling equipment (i.e., bailers or stainless-steel spoons) will be placed in sealed plastic garbage bags and disposed of as municipal solid waste.

## 3.8 Site Mapping

A Site map will be developed during the field investigation. All sample points and relevant Site features will be located on the map. C&S will employ a handheld GPS unit to identify the locations of all soil borings and newly installed wells relative to State planar grid coordinates. Elevations of soil sample locations will be surveyed in the event removal actions are necessary and the measurements will provide a datum from which to excavate. Monitoring well ground elevations will be measured by a professional surveyor so that depth measurements may be converted to elevations with common datum. An

isopotential map showing the general direction of groundwater flow will be prepared based on water level measurements relative to United States Geological Survey (USGS) vertical datum. Maps will be provided with the RI report.

## 3.9 Documentation

RI field activities will be documented daily on a Field Activity Daily Log (FADLs) to provide a record of activities conducted at the Site. Entries will be signed and dated at the end of each day of fieldwork (or as produced) by the environmental staff. Field notes will include, at a minimum, the: date and time of all entries, names of personnel on site, weather conditions (temperature, precipitation, etc.), location of activity, and description of activity. Sampling activities will be logged and photographed as necessary to document the activities at the Site. Progress photographs from a set location will be collected to document development activities and intrusive construction activities. Field personnel will complete field forms appropriate to the field activities being completed.

# 4 QUALITY ASSURANCE PROJECT PLAN

A QAPP has been prepared in support of the RI activities. The QAPP dictates implementation of the investigation tasks delineated in this Work Plan. A SAP identifying methods for sample collection, decontamination, handling, and shipping, is provided as below.

The QAPP will assure the accuracy and precision of data collection during the Site characterization and data interpretation periods. The QAPP identifies procedures for sample collection to mitigate the potential for cross-contamination, as well as analytical requirements necessary to allow for independent data validation. The QAPP has been prepared in accordance with USEPA's Requirements for Quality Assurance Project Plans for Environmental Data Operations; the EPA Region II CERCLA Quality Assurance Manual, and NYSDEC's DER-10 Technical Guidance for Site Investigation and Remediation (May 2010).

## 4.1 Scope of the QAPP

This QAPP was prepared to provide quality assurance (QA) guidelines to be implemented during the RI activities. This document may be modified for subsequent phases of investigative work, as necessary. The QAPP provides:

- A means to communicate to the persons executing the various activities exactly what is to be done, by whom, and when.
- A culmination to the planning process that ensures that the program includes provisions for obtaining quality data (e.g., suitable methods of field operations).
- A historical record that documents the investigation in terms of the methods used, calibration standards and frequencies planned, and auditing planned.
- A document that can be used by the Project Manager's and QA Officer to assess if the activities planned are being implemented and their importance for accomplishing the goal of quality data.
- A plan to document and track project data and results.
- Detailed descriptions of the data documentation materials and procedures, project files, and tabular and graphical reports.

The QAPP is primarily concerned with the quality assurance and quality control aspects of the procedures involved in the collection, preservation, packaging, and transportation of samples; field testing; record keeping; data management; chain-of-custody procedures; laboratory analyses; and other necessary matters to assure that the investigation activities, once completed, will yield data whose integrity can be defended.

QA refers to the conduct of all planned and systematic actions necessary to perform satisfactorily all task-specific activities and to provide information and data confidence as a result of such activities. The QA for task-specific activities includes the development of procedures, auditing, monitoring and surveillance of the performance.

QC refers to the activity performed to determine if the work activities conform to the requirements. This includes activities such as inspections of the work activities in the field (e.g., verification that the items and materials installed conform to applicable codes and design specifications). QA is an overview monitoring of the performance of QC activities through audits rather than first time inspections.

## 4.2 QAPP Organization and Responsibility

The principal organizations involved in verifying achievement of data collection goals for the 1200 Jefferson Avenue Site include: the NYSDEC, NYSDOH, 1200 Jefferson Properties, LLC (Owner), C&S (Environmental Consultant), the drilling subcontractor(s), the independent environmental laboratory, and the independent third party data validator. Roles, responsibilities, and required qualifications of these organizations are discussed in the following subsections.

### 4.2.1 Owner

1200 Jefferson Properties LLC will be responsible for complying with the QA requirements as specified herein and for monitoring and controlling the quality of the Brownfield cleanup construction either directly or through their designated environmental consultant and/or legal counsel. The Applicants will also have the authority to select Remedial Action Contractor(s) to assist them in fulfilling these responsibilities. The designated Project Manager is responsible for implementing the project and has the authority to commit the resources necessary to meet project objectives and requirements.

### 4.2.2 Environmental Consultant

C&S is the primary BCP environmental engineering consultant and is responsible for the implementation of the RI Work Plan, including, but not limited to, field operations, laboratory testing, data management, data analysis and reporting. Any one member of C&S' staff may fill more than one of the identified project positions (e.g., field team leader and site safety and health officer). The various quality assurances, field, laboratory, and management responsibilities of key project personnel are defined below.

BCP Project Officers (POs): Nevin Bradford, P.E.

The POs have the responsibility for ensuring conformance with the BCP program requirements. The POs will report directly to the Applicant and the NYSDEC/NYSDOH Project Coordinators and are responsible for project oversight. The POs will:

- Define project objectives and develop a detailed work plan schedule.
- Review the work performed on the project to assure its quality, responsiveness, and timeliness.
- Certify deliverables before their submission to NYSDEC.

Project Manager (PM): Daniel Riker, P.G.

The PM has the responsibility for ensuring that the project meets the Work Plan objectives. The PM will report directly to the Applicant Project Coordinator and the

NYSDEC/NYSDOH Project Coordinators and is responsible for technical and project oversight. The PM will:

- Define project objectives and develop a detailed work plan schedule.
- Establish project policy and procedures to address the specific needs of the project as a whole, as well as the objectives of each task.
- Develop and meet ongoing project and/or task staffing requirements, including mechanisms to review and evaluate each task product.
- Review the work performed on each task to assure its quality, responsiveness, and timeliness.
- Review and analyze overall task performance with respect to planned requirements and authorizations.
- Review all deliverables before their submission to NYSDEC.
- Develop and meet ongoing project and/or task staffing requirements, including mechanisms to review and evaluate each task product.
- Ultimately be responsible for the preparation and quality of interim and final reports.
- Represent the project team at meetings.

FTL/SSHO: Alexander Brennen

The Field Team Leader (FTL) has the responsibility for implementation of specific project tasks identified at the Site, and is responsible for the supervision of project field personnel, subconsultants, and subcontractors. The FTL reports directly to the Project Manager. The FTL will:

- Define daily work activities.
- Orient field staff concerning the project's special considerations.
- Monitor and direct subcontractor personnel.
- Review the work performed on each task to ensure its quality, responsiveness, and timeliness.
- Assure that field activities, including sample collection and handling, are carried out in accordance with this QAPP.

For this project the FTL will also serve as the Site Safety and Health Officer (SSHO). As such, they are responsible for implementing the procedures and required components of the Site Health and Safety Plan (HASP), determining levels of protection needed during field tasks, controlling site entry/exit, briefing the field team and subcontractors on site-specific health and safety issues, and all other responsibilities as identified in the HASP.

### 4.3 Quality Assurance (QA) Responsibilities

The QA Officer will have direct access to corporate executive staff as necessary, to resolve any QA dispute, and is responsible for auditing the implementation of the QA program in conformance with the demands of specific investigations, C&S policies, and NYSDEC requirements. The QA Officer has sufficient authority to stop work on the investigation as deemed necessary in the event of serious QA issues.

Project QA Officer: Cody Martin

Specific function and duties include:

- Performing QA audits on various phases of the field operations
- Reviewing and approving QA plans and procedures
- Providing QA technical assistance to project staff
- Reporting on the adequacy, status, and effectiveness of the QA program on a regular basis to the Project Manager for technical operations
- Responsible for assuring third party data review of all sample results from the analytical laboratory

## 4.4 Field Responsibilities

C&S field staff for this project is drawn from a pool of qualified resources. The Project Manager will use staff to gather and analyze data, and to prepare various task reports and support materials. All the designated technical team members are experienced professionals who possess the degree of specialization and technical competence required to effectively and efficiently perform the required work.

## 4.5 Quality Assurance Objectives for Measurement Data

The overall objectives and criteria for assuring quality for this effort are discussed below. This QAPP addresses how the acquisition and handling of samples and the review and reporting of data will be documented. The objectives of this QAPP are to address the following:

- The procedures to be used to collect, preserve, package, and transport groundwater samples.
- Field data collection.
- Record keeping.
- Data management.
- Chain-of-custody procedures.

Precision, accuracy, completeness, rep0resentativeness, decision rules, comparability and level of quality control effort conformance for sample analysis and data management by analytical laboratory under EPA analytical methods.

## 4.6 Level of QC Effort for Sample Parameters

Field blank, method blank, trip blank, field duplicate, laboratory duplicate, laboratory control, standard reference materials (SRM) and matrix spike samples will be analyzed to assess the quality of the data resulting from the field sampling and analytical programs. QC samples are discussed below.

- Field and trip blanks consisting of distilled water will be submitted to the analytical laboratories to provide the means to assess the quality of the data resulting from the field-sampling program. Field (equipment) blank samples are analyzed to check for procedural chemical constituents at the facility that may

cause sample contamination. Trip blanks are used to assess the potential for contamination of samples due to contaminant migration during sample shipment and storage.

- Method blank samples are generated within the laboratory and used to assess contamination resulting from laboratory procedures.
- Duplicate samples are analyzed to check for sampling and analytical reproducibility.
- MS/MSD and MS/Duplicate samples provide information about the effect of the sample matrix on the digestion and measurement methodology. Depending on site-specific circumstances, one (1) MS/MSD or MS/Duplicate should be collected for every 20 or fewer investigative samples to be analyzed for organic and inorganic chemicals of a given matrix (see Table 3).

The general level of QC effort will be one (1) field (blind) duplicate and one (1) field blank (when non-dedicated equipment is used) for every 20 or fewer investigative samples of a given matrix. Additional sample volume will also be provided to the laboratory to allow one (1) site-specific MS/MSD or MS/Duplicate for every 20 or fewer investigative samples of a given matrix. One (1) trip blank consisting of distilled, deionized water will be included along with each sample delivery group of aqueous VOC samples.

## 4.7 Sampling and Analysis Plan

The number and types of environmental samples to be collected is summarized on Table 3. Sample parameter lists, holding times and sample container requirements are summarized on Table 4. The sampling program and related site activities are discussed below. To the extent allowed by existing physical conditions at the facility, sample collection efforts will adhere to the specific methods presented herein. If alternative sampling locations or procedures are implemented in response to facility specific constraints, each will be selected based on meeting data objectives. Such alternatives will be approved by NYSDEC before implementation and subsequently documented for inclusion in the project file.

### 4.7.1 Custody Procedures

Sample custody is controlled and maintained through the chain-of-custody procedures. Chain of custody (COC) is how the possession and handling of samples will be tracked from the source (field) to their final disposition, the laboratory. A sample is in a person's custody if it is in the person's possession or it is in the person's view after being in his or her possession or it was in that person's possession and that person has locked it in a vehicle or room. Sample containers will be cleaned and preserved at the laboratory before shipment to the Site. The following section describes procedures for maintaining sample custody from the time samples are collected to the time they are received by the analytical laboratory.

### 4.7.2 Sample Storage

Samples are stored in secure limited-access areas. Walk-in coolers or refrigerators are maintained at 4°C, ± 2°C, or as required by the applicable regulatory program. The

temperatures of all refrigerated storage areas are monitored and recorded a minimum of once per day. Deviations of temperature from the applicable range require corrective action, including moving samples to another storage location if necessary.

#### 4.7.3 Sample Custody

Sample custody is defined by this document as when any of the following occur:

- It is in someone's actual possession.
- It is in someone's view after being in his or her physical possession.
- It was in someone's possession and then locked, sealed, or secured in a manner that prevents unsuspected tampering.
- It is placed in a designated and secured area.

Samples are removed from storage areas by the sample custodian or analysts and transported to secure laboratory areas for analysis. Access to the laboratory and sample storage areas is restricted to laboratory personnel and escorted visitors only; all areas of the laboratory are therefore considered secure. If required by the applicable regulatory program, internal chain-of-custody is documented in a log by the person moving the samples between laboratory and storage areas.

Laboratory documentation used to establish COC and sample identification may include the following:

- Field COC forms or other paperwork that arrives with the sample.
- The laboratory COC.
- Sample labels or tags are attached to each sample container.
- Sample custody seals.
- Sample preparation logs (i.e., extraction and digestion information) recorded in hardbound laboratory books that are filled out in legible handwriting and signed and dated by the chemist.
- Sample analysis logs (e.g., metals, GC/MS, etc.) information recorded in hardbound laboratory books that are filled out in legible handwriting and signed and dated by the chemist.
- Sample storage log (same as the laboratory COC).
- Sample disposition log, which documents sample disposal by a contracted waste disposal company.

#### 4.7.4 Sample Tracking

All samples are maintained in the appropriate coolers prior to and after analysis. The analysts remove and return their samples as needed. Samples that require internal COC are relinquished to the analysts by the sample custodians. The analyst and sample custodian must sign the original COC relinquishing custody of the samples from the sample custodian to the analyst. When the samples are returned, the analyst will sign the original COC returning sample custody to the sample custodian. Sample extracts are relinquished to the instrumentation analysts by the preparatory analysts. Each preparation department tracks internal COC through their logbooks/spreadsheets.

Any change in the sample during the time of custody will be noted on the COC (e.g., sample breakage or depletion).

#### 4.7.5 Split Sampling

The Department may split any soil or groundwater samples at the Department's expense, during this RI. C&S personnel will cooperate with the Department to facilitate split sampling, as requested.

### 4.8 Calibration Procedures and Frequency

This section describes the calibration procedures and the frequency at which these procedures will be performed for both field and laboratory instruments.

#### 4.8.1 Field Instrument Calibration

Quantitative field data to be obtained during groundwater sampling include pH, turbidity, specific conductance, temperature, and depth to groundwater. Quantitative water level measurements will be obtained with an electronic sounder or steel tape, which require no calibration. Quantitative field data to be obtained during soil sampling include screening for the presence of volatile organic constituents using a PID. Calibration results will be recorded on the appropriate field forms and in the Project Field Book.

### 4.9 Analytical Procedures

Samples collected during this investigation field sampling activities will be analyzed by a NYSDOH-approved laboratory.

#### 4.9.1 Field Analytical Procedures

Field procedures for collecting and preserving groundwater and soil samples are described in Section 3, above, and summarized in Table 4.

### 4.10 Data Usability Evaluation

Data usability evaluation procedures shall be performed for both field and laboratory operations as described below.

#### 4.10.1 Procedures Used to Evaluate Field Data Usability

The performance of all field activities, calibration checks on all field instruments at the beginning of each day of use, manual checks of field calculations, checking for transcription errors and review of field log books is the responsibility of the Field Team Leader.

#### 4.10.2 Procedures Used to Evaluate Laboratory Data Usability

Data evaluation will be performed by the third-party data validator using the most current methods and quality control criteria from the USEPA's Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, and Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review. The data review guidance will be used only to the extent that it is applicable to the SW-846 methods; SW-846 methodologies will be followed primarily and given preference over CLP when differences occur. Also, results of blanks, surrogate spikes, MS/MSDs, and laboratory control samples will be reviewed/evaluated by the data validator. All sample analytical data for each sample matrix shall be evaluated. The third-party data validation expert will also evaluate the overall completeness of the data package. Completeness checks will be administered on all data to determine whether deliverables specified in this QAPP are present. The reviewer will determine whether all required items are present and request copies of missing deliverables.

# 5 INVESTIGATION SUPPORT DOCUMENTS

## 5.1 Health and Safety Protocols

C&S has prepared a Site-Specific Health and Safety Plan (HASP) for use by our employees in accordance with 40 CFR 300.150 of the NCP and 29 CFR 1910.120. The HASP, provided in Appendix B, includes the following site-specific information:

- A hazard assessment.
- Training requirements.
- Definition of exclusion, contaminant reduction, and other work zones.
- Monitoring procedures for site operations.
- Safety procedures.
- Personal protective clothing and equipment requirements for various field operations.
- Disposal and decontamination procedures.

The HASP also includes a contingency plan that addresses potential site-specific emergencies, and a CAMP that describes required particulate and vapor monitoring to protect the neighboring community during intrusive site investigation and remediation activities.

Health and safety activities will be monitored throughout the field investigation. A member of the field team will be designated to serve as the on-site Health and Safety Officer throughout the field program. This person will report directly to the Project Manager and the Corporate Health and Safety Coordinator. The HASP will be subject to revision as necessary, based on new information that is discovered during the field investigation and/or remedial activities.

### 5.1.1 Community Air Monitoring

Real-time community air monitoring will be performed during the RI activities at the Site. A CAMP is included within C&S' HASP (see HASP Appendix B). Particulate and VOC monitoring will be performed along the perimeter of the work area during subgrade excavation, grading and soil/fill handling activities in accordance with this plan. The CAMP is consistent with the requirements for community air monitoring at remediation sites as established by the NYSDOH and NYSDEC. Accordingly, it follows procedures and practices outlined under NYSDEC's DER-10 (May 2010) Appendix 1A (NYSDOH's Generic Community Air Monitoring Plan) and Appendix 1B (Fugitive Dust and Particulate Monitoring).

## 5.2 Citizen Participation Activities

NYSDEC will coordinate and lead community relations throughout the course of the project. C&S will support NYSDEC's community relations activities, as necessary. A Citizen Participation (CP) Plan was prepared by Benchmark Turnkey and submitted previously to NYSDEC under separate cover. The CP Plan follow's NYSDEC's CP Plan template for BCP sites entering at the point of Site investigation. C&S intends to follow that plan during the performance of this Remedial Investigation.

# 6 REPORTING

Upon completion of the RI fieldwork, a comprehensive Remedial Investigation/Alternatives Analysis (RI/AA) Report will be completed summarizing the RI tasks completed and evaluating the remedial alternative(s).

## 6.1 Remedial Investigation Reporting

The RI section of the RI/AAR will include the following information and documentation, consistent with the NYSDEC's DER-10 Technical Guidance for Site Investigation and Remediation (May 2010):

- Introduction and background;
- A description of the site and the investigation areas;
- A description of the field procedures and methods used during the RI;
- The collection of geospatial data and presentation of investigation drawings detailing the investigation locations, potential areas of concern, presence of buildings, and subgrade utilities;
- A discussion of the nature and rationale for any significant variances from the scope of work described in this RI Work Plan;
- The data obtained during the RI and historical data considered by C&S to be of useable quality. This will include geochemical data, field measurements, validated analytical results, etc.;
- Comparative criteria that may be used to calculate cleanup levels during the AA process, such as NYSDEC SCOs and other pertinent regulatory standards or criteria;
- A discussion of contaminant fate and transport. This will provide a description of the hydrologic parameters of the Site, and an evaluation of the lateral and vertical movement of groundwater;
- Conclusions regarding the extent and character of environmental impact in the media being investigated;
- The conclusions of the on-site and off-site qualitative human health and environmental exposure assessment, completed in accordance with DER-10;
- The appropriate level of Fish and Wildlife Resources Impact Assessment (FWRIA) in compliance with DER-10 will be completed; and
- Supporting materials for RI data. These will include boring logs, monitoring well construction diagrams, laboratory analytical reports, and similar information.

In addition, C&S will require third-party data review by a qualified, independent data validation expert. Specifically, a Data Usability Summary Report (DUSR) will be prepared, with appropriate data qualifiers added to the results. The DUSR will follow NYSDEC format per the NYSDEC's September 1997 DUSR guidelines and May 2010 DER-10 guidance. The DUSR and any necessary qualifications to the data will be appended to the RI report.

## 6.2 Alternatives Analysis Report

An AAR is typically developed to provide a forum for evaluating and selecting a recommended remedial approach, in accordance with DER-10.

A list of remedial action objectives will be developed based on findings of the RI and the requirement for the selected remedial measures to be protective of human health and the environment under the proposed future use scenario. Proposed SCOs for the property will also be presented based on the proposed future use of the Site. SCOs will be based on published standards, criteria, and guidance (SCGs) and other NYSDEC and NYSDOH-accepted values.

Based on the remedial action objectives and SCOs, volumes and areas of media potentially requiring additional remediation will be calculated. General response actions will then be delineated to address each of the site problem areas. These response actions will form the foundation for the development and screening of applicable remedial alternatives against the following criteria as described in 6NYCRR 375-1.8(f) and DER-10-4.2:

- Overall Protection of Human Health and the Environment
- Compliance with Standards, Criteria, & Guidance (SCGs)
- Long-term Effectiveness & Permanence
- Reduction of Toxicity, Mobility, or Volume
- Short-term Effectiveness
- Implementability
- Cost Effectiveness
- Land Use

In addition, the criteria of community acceptance will be considered based on public comments on the AAR and proposed remedial action. Following the screening of alternatives, a comparative analysis will be performed against the above criteria. The comparative analysis will allow for better understanding of the relative advantages and disadvantages of each of the alternatives, and will facilitate identification of a recommended remedial approach.

# 7 PROJECT SCHEDULE

It is assumed that NYSDEC will review this RI Work Plan followed by a 45-day comment period. Below is an anticipated schedule of milestones for the remediation of the Site.

| Anticipated Date | Milestone |
|---|---|
| September 2021 | RI Work Plan Submission |
| October 2021 | RI Work Plan Approved |
| November 2021 | Remedial Investigation Begins |
| January 2022 | Remedial Investigation Ends |
| March 2022 | Remedial Investigation and Alternatives Analysis Report Submission |
| May 2022 | Remedial Investigation Report Approval |
| June 2022 | Remedial Work Begins |
| July 2022 | Remedial Work Ends |
| August 2022 | Environmental Easement Submission |
| August 2022 | Site Management Plan ("SMP") Submission |
| September 2022 | Final Engineering Report ("FER") Submission |
| September 2022 | SMP Approved |
| September 2022 | Environment Easement Executed |
| October 2022 | FER Approved |
| October 2022 | Decision Document |
| December 2022 | Certificate of Completion Issued |

# 8 REFERENCES

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5. U.S. Environmental Protection Agency. *National Functional Guidelines for Organic Data Review (EPA-540/R-94-012)*, 1994a.

6. U.S. Environmental Protection Agency. *National Functional Guidelines for Inorganic Data Review (EPA-540/R-94-013)*, 1994b.

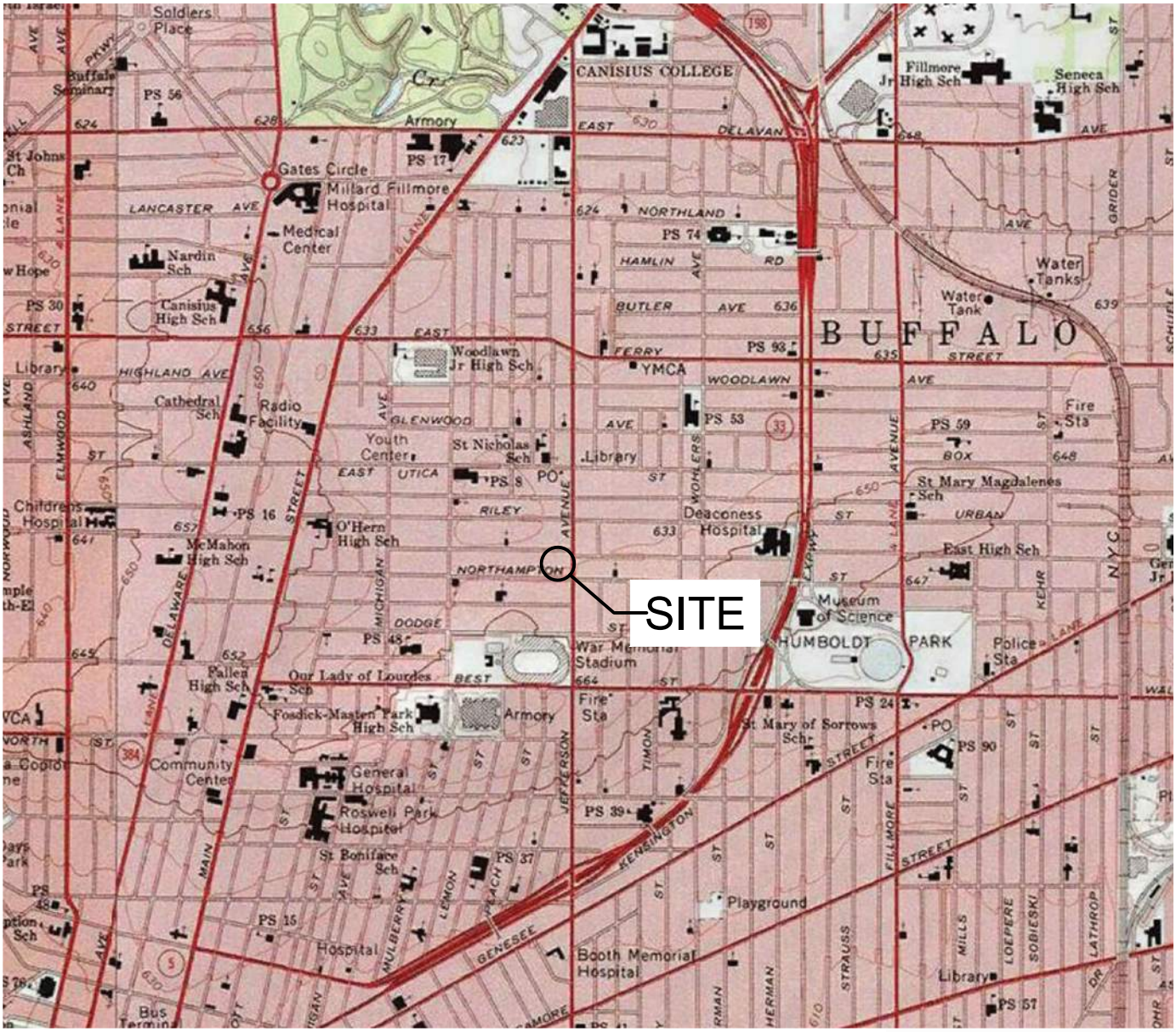
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# FIGURES

# FIGURE 1




N

2000' 0' 2000' 4000'

SCALE: 1 INCH = 2000 FEET
SCALE IN FEET
(approximate)




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Buffalo, New York 14203
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Fax: 716-847-1454
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| | |
|---|---|
| PROJECT NO.: | Y03.002.001 |
| DATE: | September 17 2021 |
| DRAFTED BY: | a. pliszka |

## SITE LOCATION AND VICINITY MAP

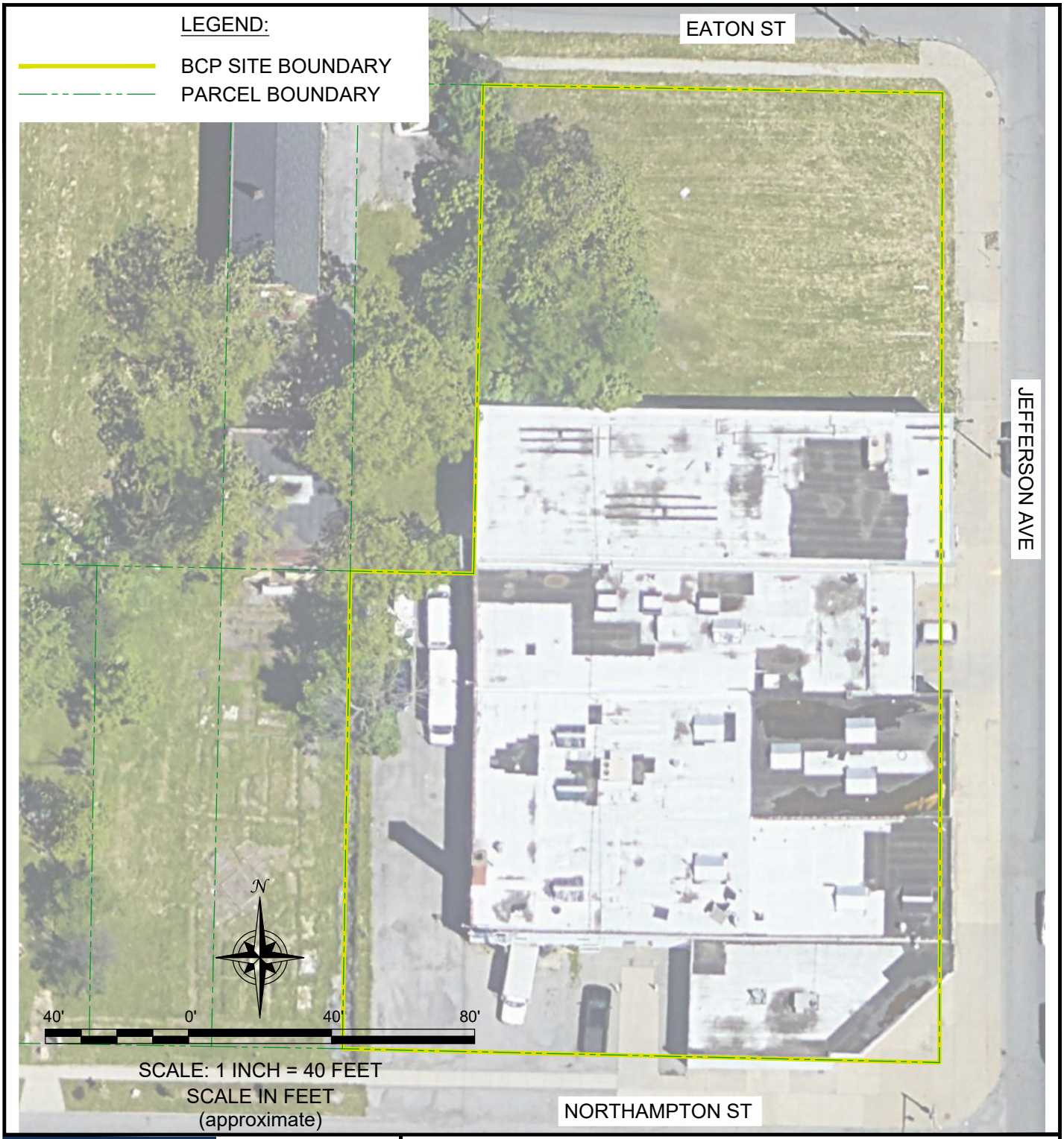
REMEDIAL INVESTIGATION
WORK PLAN

1200 JEFFERSON AVENUE SITE
BCP SITE NO. C915346
BUFFALO, NEW YORK

PREPARED FOR

1200 JEFFERSON PROPERTIES, LLC

# FIGURE 2




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PROJECT NO.: Y03.002.001

DATE: September 17 2021

DRAFTED BY: a. pliszka

## SITE PLAN (AERIAL)

REMEDIAL INVESTIGATION
WORK PLAN

1200 JEFFERSON AVENUE SITE
BCP SITE NO. C915346
BUFFALO, NEW YORK

PREPARED FOR

1200 JEFFERSON PROPERTIES, LLC

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SB-1 ● SUPPLEMENTAL PHASE II SOIL BORING
- SB-2/TMW-2 ⊕ SUPPLEMENTAL PHASE II SOIL BORING/TEMPORARY MONITORING WELL
- TP-1 ▬ SUPPLEMENTAL PHASE II TEST PIT
- SB-3 ● PHASE II SOIL BORING
- SB-4/TMW-4 ⊕ PHASE II SOIL BORING/ TEMPORARY MONITORING WELL
- APPROXIMATE LOCATION OF FORMER DRYCLEANING OPERATIONS

NOTE:

- PHASE II ANALYTICAL SOIL BORINGS, SURFACE, SEDIMENT AND GROUNDWATER SAMPLING COMPLETED BY TURNKEY ENVIRONMENTAL RESTORATION, LLC. FEBRUARY 2017.

- = EXCEEDS NYCRR PART 375 PROTECTION OF GROUNDWATER SCOs
- = EXCEEDS NYCRR PART 375 RRSCOs
- = EXCEEDS NYCRR PART 375 CSCOs
- = EXCEEDS NYCRR PART 375 ISCOs
- = EXCEEDS NYSDEC CLASS "GA" GROUNDWATER QUALITY STANDARDS

EATON ST

JEFFERSON AVE

NORTHAMPTON ST

TP-1 TP-2 TP-3 TP-4 TP-5 TP-6 TP-7

SB-1 SB-2 SB-3 SB-4 SB-5 SB-6 SB-7 SB-8 SB-9 SB-10 SB-11/TMW-2 SB-12 SB-13 SB-14 SB-15 SB-16 SB-17 SB-18 SB-19 SB-20 SB-21 SB-22 SB-23/TMW-3 SB-24 SB-25/TMW-4 SB-26 SB-27 SB-28 SB-29

| FD-1 | MG/KG |
|---|---|
| 1,2,4-TRIMETHYLBENZENE | 97 |
| METHYLENE CHLORIDE | 0.85 |
| TRICHLOROETHENE | 0.54 |
| BARIUM | 436 |
| CHROMIUM | 228 |

| ODORS NOTED PID READING = 8 PPM | |
|---|---|
| SB-29 (5-6') | MG/KG |
| TETRACHLOROETHENE | 7.10 |

APPROXIMATE LOCATION OF 8,000-GALLON CLOSED-IN-PLACE UST

| URBAN FILL PRESENT FROM 0-8.5 FBGS | |
|---|---|
| TP-6 (4-5') | MG/KG |
| LEAD | 739 |
| MERCURY | 0.96 |

| STRONG ODORS NOTED FROM 0.75-12 FBGS PID READING = 295 PPM | |
|---|---|
| SB-13 (6-8') | MG/KG |
| METHYLENE CHLORIDE | 0.13 |

LOCATION OF 2 FORMER USTs

| URBAN FILL PRESENT FROM 0-0.75 FBGS WITH ODORS PID READING = 3 PPM | |
|---|---|
| SB-12 (2"-6") | MG/KG |
| ARSENIC | 18.3 |
| STRONG ODORS NOTED FROM 0.75-12 FBGS PID READING = 368 PPM | |
| SB-12 (8-9') | MG/KG |
| METHYLENE CHLORIDE | 0.15 |

| TMW-3 | UG/L |
|---|---|
| TETRACHLOROETHENE | 280 |
| TRICHLOROETHENE | 36 |
| CIS-1,2-DICHLOROETHENE | 9.3 |

| TMW-1 | UG/L |
|---|---|
| TETRACHLOROETHENE | 30 |

| URBAN FILL PRESENT FROM 0-4 FBGS PRODUCT NOTED ON SLEEVE AND SOIL WITH ODORS PID READING = 58 PPM | |
|---|---|
| SB-11 (7-8') | MG/KG |
| CIS-1,2-DICHLOROETHENE | 0.42 |
| METHYLENE CHLORIDE | 0.24 |
| TMW-2 | UG/L |
| N-BUTYLBENZENE | 7.5 |
| TETRACHLOROETHENE | 6.3 |
| TRICHLOROETHENE | 11 |
| CIS-1,2-DICHLOROETHENE | 470 |
| TRANS-1,2-DICHLOROETHENE | 9.2 |
| VINYL CHLORIDE | 360 |

| ODORS NOTED PID READING = 26.7 PPM | |
|---|---|
| SB-25 (5-7') | MG/KG |
| TETRACHLOROETHENE | 110 |
| TMW-4 | UG/L |
| TETRACHLOROETHENE | 1900 |
| TRICHLOROETHENE | 130 |
| CIS-1,2-DICHLOROETHENE | 860 |
| TRANS-1,2-DICHLOROETHENE | 34 |
| VINYL CHLORIDE | 24 |

N

40' 0' 40' 80'

SCALE: 1 INCH = 40 FEET
SCALE IN FEET
(approximate)

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# INVESTIGATION LOCATIONS AND AREAS OF CONCERN

REMEDIAL INVESTIGATION WORK PLAN

1200 JEFFERSON AVENUE SITE
BCP SITE NO. C915346
BUFFALO, NEW YORK

PREPARED FOR
1200 JEFFERSON PROPERTIES, LLC

**FIGURE 3**

## LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SB-2 ● PREVIOUS INVESTIGATION SOIL BORING (FEB. AND DEC. 2018)
- SB-1/TMW-1 PREVIOUS INVESTIGATION SOIL BORING/ TEMPORARY MONITORING WELL (FEB. AND DEC. 2018)
- TP-1 SUPPLEMENTAL PHASE II TEST PIT (DEC. 2018)
- SB-30 ● RI SOIL BORING
- SB-34/TMW-5 RI SOIL BORING/TEMPORARY MONITORING WELL
- MW-1 RI SOIL BORING/MONITORING WELL
- TP-8 RI TEST PIT
- SS-1 RI SURFACE/NEAR SURFACE SOIL SAMPLE
- SSV-1/IA-1 RI SUBSLAB VAPOR/INDOOR AIR SAMPLE
- OA-1 RI OUTDOOR AIR SAMPLE
- ● UST EXPLORATORY ASSESSMENT BORING
- APPROXIMATE LOCATION OF 8,000-GALLON CLOSED-IN-PLACE UST




N

40' 0' 40' 80'

SCALE: 1 INCH = 40 FEET
SCALE IN FEET
(approximate)


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# PLANNED RI SAMPLE LOCATIONS

REMEDIAL INVESTIGATION WORK PLAN
1200 JEFFERSON AVENUE SITE
BUFFALO, NEW YORK

PREPARED FOR
1200 JEFFERSON PROPERTIES, LLC

**FIGURE 4**

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SSV-1/IA-1 RI SUBSLAB VAPOR/INDOOR AIR SAMPLE
- OA-1 RI OUTDOOR AIR SAMPLE
- APPROXIMATE LOCATION OF 8,000-GALLON CLOSED-IN-PLACE UST
- BUILDING PARTITIONS
- BUILDING PARTITIONS TO BE DEMOLISHED




N

40' 0' 40' 80'

SCALE: 1 INCH = 40 FEET
SCALE IN FEET
(approximate)

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# PLANNED RI SAMPLE LOCATIONS-AIR

REMEDIAL INVESTIGATION WORK PLAN
1200 JEFFERSON AVENUE SITE
BUFFALO, NEW YORK

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**FIGURE 5**

# TABLES

**TABLE 1**

**SUMMARY OF PREVIOUS INVESTIGATION SUBSURFACE SOIL-FILL ANALYTICAL RESULTS**
**1200 JEFFERSON AVENUE SITE**
**BCP SITE NO. C915346**
**BUFFALO, NEW YORK**

| PARAMETER [1] | Protection of Groundwater SCOs [2] | Unrestricted Use SCOs [2] | Restricted Residential Use SCOs [2] | Commercial Use SCOs [2] | Industrial Use SCO's [2] | SAMPLE LOCATION (DEPTH) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SB-1 (4"-1') | SB-5 (0-2') | FD-1 | SB-11 (7-8') | SB-12 (8-9') | SB-13 (6-8') | SB-18 (1.5-2.5') | SB-22 (.5-2.5') | SB-12 (2"-6") | SB-25 (5-7') | SB-29 (5-6') | TP-1 (6-7') | TP-2 (0-1') | TP-3 (2-3') | TP-6 (4-5') |
| | | | | | | 02/15/2018 | | | 02/16/2018 | | | | | | 12/18/2108 | | 12/14/2018 | | | |
| ***Volatile Organic Compounds (VOCs) - mg/Kg*** [3] | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | -- | 3.6 | 52 | 190 | 380 | ND | -- | 97 | ND | 7.2 | 8.1 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| 1,2-Dichlorobenzene | -- | 1.1 | 100 | 500 | 1,000 | ND | -- | ND | ND | ND | ND | -- | -- | -- | 0.0017 J | ND | ND | -- | -- | -- |
| 1,3,5-Trimethylbenzene | -- | 8.4 | 52 | 190 | 380 | ND | -- | 30 | ND | 2.4 | 2.3 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| 1,4-Dichlorobenzene | -- | 1.8 | 13 | 130 | 250 | ND | -- | ND | ND | ND | ND | -- | -- | -- | 0.0018 J | ND | ND | -- | -- | -- |
| 4-Isopropyltoluene | -- | -- | -- | -- | -- | ND | -- | 14 | ND | 0.14 | 0.17 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| Benzene | -- | 0.06 | 4.8 | 44 | 89 | ND | -- | ND | ND | 0.2 | 0.052 J | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| Chloroform | 0.37 | 0.37 | 49 | 350 | 700 | 0.003 | -- | ND | ND | ND | ND | -- | -- | -- | 0.0023 J | 0.00041 J | ND | -- | -- | -- |
| Chloromethane (Methyl chloride) | -- | | | -- | | ND | -- | ND | ND | ND | ND | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| cis-1,2-Dichloroethene | 0.25 | 0.25 | 100 | 500 | 1,000 | ND | -- | ND | 0.42 J | ND | ND | -- | -- | -- | 0.02 | 0.017 | ND | -- | -- | -- |
| Ethylbenzene | -- | 1 | 41 | 390 | 780 | ND | -- | 1.1 J | ND | 2.1 | 2.1 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| Isopropylbenzene (Cumene) | -- | -- | -- | -- | -- | ND | -- | 1.9 | ND | 0.29 | 0.16 | -- | -- | -- | 0.0061 | ND | ND | -- | -- | -- |
| Methylcyclohexane | -- | -- | -- | -- | -- | ND | -- | ND | ND | 1.3 | 0.42 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| Methylene chloride | 0.05 | 0.05 | 100 | 500 | 1,000 | ND | -- | 0.85 B,J | 0.24 B,J | 0.15 B | 0.13 B | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| n-Butylbenzene | -- | 12 | 100 | 500 | 1,000 | ND | -- | 34 | 5 | 0.91 | 0.54 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| n-Propylbenzene | -- | 3.9 | 100 | 500 | 1,000 | ND | -- | 4.6 | ND | 1.3 | 0.88 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| sec-Butylbenzene | -- | 11 | 100 | 500 | 1,000 | ND | -- | 1.1 | ND | 0.18 | 0.075 J | -- | -- | -- | 0.0019 J | ND | ND | -- | -- | -- |
| Tetrachloroethene | 1.3 | 1.3 | 19 | 150 | 300 | 0.22 | -- | ND | ND | 0.063 J | ND | -- | -- | -- | 110 E | 7.1 | ND | -- | -- | -- |
| Toluene | 0.7 | 0.7 | 100 | 500 | 1,000 | ND | -- | 2.5 | ND | 0.052 J | 0.28 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| trans-1,2-Dichloroethene | 0.19 | 0.19 | 100 | 500 | 1,000 | ND | -- | ND | ND | ND | ND | -- | -- | -- | 0.001 J | 0.0039 J | ND | -- | -- | -- |
| Trichloroethene | 0.47 | 0.47 | 21 | 200 | 400 | ND | -- | 0.54 J | ND | ND | ND | -- | -- | -- | 0.27 E | 0.45 | ND | -- | -- | -- |
| o-Xylenes | 0.26 | 0.26 | 100 | 500 | 1000 | ND | -- | ND | ND | ND | ND | -- | -- | -- | 0.0043 J | ND | 0.041 JB | -- | -- | -- |
| Total Xylenes | -- | 0.26 | 100 | 500 | 1000 | ND | -- | 11 | ND | 3.7 J | 11 | -- | -- | -- | 0.0043 J | ND | ND | -- | -- | -- |
| ***Semi-Volatile Organic Compounds (SVOCs) - mg/Kg*** [3] | | | | | | | | | | | | | | | | | | | | |
| Anthracene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.067 | ND | ND | -- | -- | -- | ND | ND | ND |
| Benzo(a)anthracene | -- | 1 | 1 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.21 | 0.69 J | 0.72 J | -- | -- | -- | 0.081 J | ND | ND |
| Benzo(a)pyrene | -- | 1 | 1 | 1 | 1 | -- | ND | ND | -- | -- | -- | 0.2 | 0.68 J | 0.63 J | -- | -- | -- | 0.081 J | 0.047 J | ND |
| Benzo(b)fluoranthene | -- | 1 | 1 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.25 | 0.85 J | 0.77 J | -- | -- | -- | 0.096 J | 0.044 J | ND |
| Benzo(ghi)perylene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.16 J | 0.45 J | 0.46 J | -- | -- | -- | 0.056 J | 0.038 J | ND |
| Benzo(k)fluoranthene | -- | 0.8 | 3.9 | 56 | 110 | -- | ND | ND | -- | -- | -- | 0.12 J | 0.44 J | ND | -- | -- | -- | ND | ND | ND |
| Chrysene | -- | 1 | 3.9 | 56 | 110 | -- | ND | ND | -- | -- | -- | 0.22 | 0.75 J | 0.7 J | -- | -- | -- | 0.093 J | ND | ND |
| Fluoranthene | -- | 100 | 100 | 500 | 1,000 | -- | 0.029 | 11 J | -- | -- | -- | 0.3 | 1.3 J | 1.3 | -- | -- | -- | ND | 0.039 | 18 |
| Indeno(1,2,3-cd)pyrene | -- | 0.5 | 0.5 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.14 J | 0.44 J | ND | -- | -- | -- | ND | 0.028 | ND |
| Naphthalene | -- | 12 | 100 | 500 | 1,000 | -- | ND | 38 J | -- | -- | -- | 0.086 J | ND | ND | -- | -- | -- | ND | ND | ND |
| Phenanthrene | -- | 100 | 100 | 500 | 1,000 | -- | ND | 8.8 J | -- | -- | -- | 0.27 | 0.56 J | 0.79 J | -- | -- | -- | 0.17 J | ND | ND |
| Pyrene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.34 | 1.2 J | 1.3 | -- | -- | -- | 0.095 J | 0.042 | 15 |
| Total PAHs | -- | -- | 100 | 500 | -- | -- | 0.029 | 57.8 | -- | -- | -- | 2.363 | 7.36 | 6.67 | -- | -- | -- | ND | ND | ND |
| ***Metals - mg/Kg*** | | | | | | | | | | | | | | | | | | | | |
| Arsenic | -- | 13 | 16 | 16 | 16 | -- | 6 | 3.5 | -- | -- | -- | 11.8 | 8.8 | 18.3 | -- | -- | -- | 10.5 | 4.7 | 4.3 |
| Barium | -- | 350 | 400 | 400 | 10,000 | -- | 127 | 436 | -- | -- | -- | 55.9 | 155 | 116 | -- | -- | -- | 74.4 | 83.9 | 295 |
| Cadmium | -- | 2.5 | 4.3 | 9.3 | 60 | -- | ND | ND | -- | -- | -- | ND | 0.66 | ND | -- | -- | -- | ND | ND | 1.8 |
| Chromium | -- | 30 | 180 | 1,500 | 6,800 | -- | 23.7 | 228 | -- | -- | -- | 10.2 | 15.1 | 14.6 | -- | -- | -- | 25.7 | 21.6 | 14.6 |
| Lead | -- | 63 | 400 | 1,000 | 3,900 | -- | 205 | 36.9 | -- | -- | -- | 12.8 | 346 | 63.3 | -- | -- | -- | 12.4 | 51.3 | 739 |
| Mercury | -- | 0.18 | 0.81 | 2.8 | 6 | -- | 0.26 | 0.046 | -- | -- | -- | 0.19 | 0.19 | 0.099 | -- | -- | -- | 0.069 | 0.21 | 0.96 |

**Notes:**

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

**Definitions:**

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter. Or parameter not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analyte was detected in associated method blank.

| | |
|---|---|
| **Bold** | = Result exceeds Protection of Groundwater SCOs. |
| **Bold** | = Result exceeds Unrestricted Use SCOs. |
| **Bold** | = Result exceeds Restricted Residential Use SCOs. |
| **Bold** | = Result exceeds Commercial Use SCOs. |
| **Bold** | = Result exceeds Industrial Use SCOs. |

**TABLE 2**

**SUMMARY OF PREVIOUS INVESTIGATION GROUNDWATER ANALYTICAL RESULTS**

**1200 JEFFERSON AVENUE SITE**
**BCP SITE NO. C915346**
**BUFFALO, NEW YORK**

| Parameters [1] | Class GA GWQS[2] | Sample Location | | | |
|---|---|---|---|---|---|
| | | TMW-1 | TMW-2 | TMW-3 | TMW-4 |
| | | 2/15/18 | 2/16/18 | 12/19/18 | |
| ***Volatile Organic Compounds (VOCs) - ug/L*** | | | | | |
| 1,1-Dichloroethene | **5** | ND | 1.4 | ND | ND |
| Chloroform | **7** | 3 | ND | ND | ND |
| Methylene Chloride | **5** | 3.1 | 0.96 | ND | ND |
| n-Butylbenzene | **5** | ND | **7.5** | ND | ND |
| Tetrachloroethene | **5** | **30** | **6.3** | **280** | **1900 F1** |
| Trichloroethene | **5** | ND | **11** | **36** | **130** |
| cis-1,2-Dichloroethene | **5** | 2.7 | **470** | **9.3** | **860 F1** |
| trans-1,2-Dichloroethene | **5** | ND | **9.2** | ND | **34** |
| Vinyl Chloride | **2** | ND | **360** | ND | **24** |

**Notes:**

1. Only parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards.

**Qualifiers:**

ND = Parameter not detected above laboratory detection limit.

**BOLD** = Result exceeds GWQS.

**TABLE 3**

**SUMMARY OF SAMPLING AND ANALYTICAL PROGRAM RI WORK PLAN**
**1200 JEFFERSON AVENUE SITE C915346**

**BUFFALO, NEW YORK**

| Matrix | Investigation Location | | Full List VOCs [1] | TCL SVOCs [2] | TAL Metals | PCBs | Pesticides | Herbicides | PFAS [3] |
|---|---|---|---|---|---|---|---|---|---|
| Soil/Fill | SS-1 | Surface Soil/Fill (0.2") | 1 | 1 | 1 | 1 | | | |
| | | Near Surface Soil/Fill (0.2') | 1 | 1 | 1 | 1 | | | |
| | SS-2 | Surface Soil/Fill (0.2") | 1 | 1 | 1 | | | | |
| | | Near Surface Soil/Fill (0.2') | 1 | 1 | 1 | | | | |
| | SS-3 | Surface Soil/Fill (0.2") | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | Near Surface Soil/Fill (0.2') | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | SS-4 | Surface Soil/Fill (0.2") | 1 | 1 | 1 | | | | |
| | | Near Surface Soil/Fill (0.2') | 1 | 1 | 1 | | | | |
| | SB-30 | Interior Subsurface Soil/Fill | 1 | 1 | 1 | | | | |
| | SB-31 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | SB-32/TMW-7 | | 1 | 1 | 1 | 1 | | | |
| | SB-33 | | 1 | 1 | 1 | | | | |
| | SB-34 | | 1 | 1 | | | | | |
| | SB-35/TMW-5 | | 1 | 1 | 1 | | | | |
| | SB/TMW-6 | | 1 | 1 | 1 | | | | |
| | SB-36 | Exterior Subsurface Soil/Fill | 1 | 1 | | | | | |
| | SB-37 | | 1 | 1 | | | | | |
| | TP-8 | | 1 | 1 | 1 | | | | |
| | TP-9 | | 1 | 1 | 1 | 1 | | | |
| | TP-10 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | TP-11 | | 1 | 1 | 1 | 1 | | | |
| | TP-12 | | 1 | 1 | 1 | | | | |
| | TP-13 | | 1 | 1 | 1 | 1 | | | |
| | MW-1 | Native Soil (Approx. 10-15 fbgs) | 1 | 1 | 1 | 1 | | | |
| | MW-2 | | 1 | 1 | 1 | 1 | | | |
| | MW-3 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | MW-4 | | 1 | 1 | 1 | | | | |
| | MW-5 | | 1 | 1 | 1 | | | | |
| | SB | UST Exploratory Assessment [4] | 1 | 1 | | | | | |
| | SB | | 1 | 1 | | | | | |
| | SB | | 1 | 1 | | | | | |
| QA/QC | Soil | MS/MD | 2 | 4 | 4 | 2 | 2 | 2 | 2 |
| | | Blind Duplicate | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | **Total Soil Samples** | **34** | **36** | **30** | **16** | **8** | **8** | **8** |
| Soil Vapor (TO-15 Method) | SSV-1 | Interior (former dry-cleaner) | 1 | | | | | | |
| | IA-1 | Interior (ambient) | 1 | | | | | | |
| | SSV-2 | Interior (former dry-cleaner) | 1 | | | | | | |
| | IA-2 | Interior (ambient) | 1 | | | | | | |
| | SSV-3 | Interior (former dry-cleaner) | 1 | | | | | | |
| | IA-3 | Interior (ambient) | 1 | | | | | | |
| | OA-1 | Exterior (ambient) | 1 | | | | | | |
| QA/QC | Air | Blind Dup | 1 | | | | | | |
| | | **Total Soil Vapor Samples** | **8** | **-** | **-** | **-** | **-** | **-** | **-** |
| Groundwater [5,6] | TMW-5 | Interior (former dry-cleaner) | 1+ | 1+ | | | | | |
| | TMW-6 | Interior (former dry-cleaner) | 1+ | 1+ | | | | | |
| | TMW-7 | Interior | 1+ | 1+ | | | | | |
| | MW-1 | Northwest | 1+ | 1+ | 1+ | 1+ | 1+ | 1+ | 1 |
| | MW-2 | Northeast | 1+ | 1+ | 1+ | 1+ | 1+ | 1+ | 1 |
| | MW-3 | East | 1+ | 1+ | 1+ | 1+ | 1+ | 1+ | 1 |
| | MW-4 | South of Building | 1+ | 1+ | 1+ | 1+ | 1+ | 1+ | 1 |
| | MW-5 | West | 1+ | 1+ | 1+ | 1+ | 1+ | 1+ | 1 |
| QA/QC | Groundwater | MS/MSD | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | Blind Dup | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Submersible Pump | Equipment Blank | -- | -- | -- | -- | -- | -- | 1 |
| | | **Total Groundwater Samples** | **11** | **11** | **8** | **8** | **8** | **8** | **9** |

**Notes:**

1. Full List VOCs = TCL plus CP-51 List VOCs via Method 8260 including tentatively identified compounds (TICs)
2. TCL SVOCs = 1,4-Dioxane is included with the soil analysis via EPA Method 8270; and, groundwater analysis via EPA Method 8270 Selective Ion Monitoring (SIM).
3. PFAS = Analysis via EPA Method 537.1
4. Total number of exploratory assessment borings and analysis to be determined during RI activities.
5. GW field parameters including: pH, specific conductance, temperature, DO, ORP, and turbidity will be collected and recorded.
6. Soil samples will be collected from the screened interval which may or may not be native soils, therefore multiple soil samples may be collected as indicated by "1+"

**Acronyms:**

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

TCL = Target Compound List

TAL = Target Analyte List

**TABLE 4**

**SAMPLE CONTAINER, VOLUME, PRESERVATION & HOLDING TIME REQUIREMENTS**

**1200 JEFFERSON AVENUE SITE BCP SITE NO. C915346**
**BUFFALO, NEW YORK**

| Matrix | Parameter [1] | Method [1] | Container Type | Minimum Volume | Preservation (Cool to 2-4 °C for all samples) | Holding Time from Sample Date |
|---|---|---|---|---|---|---|
| Soil | TCL + CP-51 VOCs | 8260B | EnCore/WMG | 5 gm / 4 oz. | Cool to 2-4 °C, Zero Headspace | 48 - hours / 14 days |
| | TCL SVOCs | 8270C | WMG | 16 oz. | Cool to 2-4 °C | 14 days extrac./40 days |
| | TAL Metals 2 | 6010 | WMG | 4 oz. | Cool to 2-4 °C | 6 months/Hg 28 days |
| | Pesticides | 8081 | WMG | 8oz | Cool to 2-4 °C | 14 days extrac./40 days |
| | Herbicides | 8151 | WMG | 8oz | Cool to 2-4 °C | 14 days extrac./40 days |
| | PCBs | 8082 | WMG | 4 oz. | Cool to 2-4 °C | 14 days extrac./40 days |
| | PFAS | 537.1 | HDPE/Polypropylene | 4-8 oz. | Cool to 2-4 °C | 14 days extrac./40 days |
| Groundwater | TCL + CP-51 VOCs | 8260B | glass vial | 3 - 4 oz. | HCl to pH<2, Zero Headspace, Cool to 2-4 °C | 14 days |
| | TCL SVOCs | 8270C | amber glass | 1000 ml | Cool to 2-4 °C | 7 days extrac/40 days |
| | TAL Metals 2 | 6010 | plastic | 600 ml | HNO3 to pH<2, Cool to 2-4 °C | 6 months/Hg 28 days |
| | Pesticides | 8081B | amber glass | 1000 ml | Cool to 2-4 °C | 14 days extrac./40 days |
| | Herbicides | 8151A | amber glass | 1000 ml | Cool to 2-4 °C | 14 days extrac./40 days |
| | PCBs | 8082 | amber glass | 1000 ml | Cool to 2-4 °C | 7 days extrac/40 days |
| | PFAS | 537.1 | HDPE/Polypropylene | 2 - 500 mL | Trizma, Cool to 2-4 °C | 14 days |
| | 1,4-Dioxane | 8270 SIM | amber glass | 2 - 500 mL | Cool to 2-4 °C | 7 days extrac/40 days |
| Air/Soil Vapor | TCL VOCs | TO-15 | Summa Cannister | 6 liters | None | Analyze within 14 days of sample date of collection |

**References:**
1. Test Methods for Evaluating Solid Wastes, USEPA SW-846, Update III, 1991.

**Notes:**
1. EPA-approved methods published in Reference 1 above may be used. The list of analytes, laboratory method and the method detection limit for each parameter are included in Tables 1 and 2 of the QAPP.
2. Mercury sampling in soil/groundwater via EPA methods 7471/7470 respectively.

**Acronyms:**
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
TCL = Target Compound List
TAL = Target Analyte List
PCBs = Polychlorinated Biphenyls

# APPENDICES

# APPENDIX A
## PREVIOUS ENVIRONMENTAL INVESTIGATIONS (ELECTRONIC)

# Phase I Environmental Site Assessment (ESA)

*1200 JEFFERSON AVENUE AND ASSOCIATED PARCELS*
*BUFFALO, NEW YORK*

March 2018 0239-018-001

Prepared For:

Sinatra & Company Realty



Prepared By:

TurnKey Environmental Restoration, LLC

2558 Hamburg Turnpike, Suite 300, Buffalo, New York | phone: (716) 856-0635 | fax: (716) 856-0583

# PHASE I ENVIRONMENTAL SITE ASSESSMENT
# ASTM E1527-13

**FOR**
**1200 JEFFERSON AVENUE AND ASSOCIATED PARCELS**
**BUFFALO, NEW YORK**

March 2018 0239-018-001

Prepared for:

**Sinatra & Company Realty**
**617 Main Street, Suite 200**
**Buffalo, New York 14203**

Prepared by:

**TurnKey Environmental Restoration, LLC**
**2558 Hamburg Turnpike, Suite 300**
**Buffalo, New York 14218**

# PHASE I ENVIRONMENTAL SITE ASSESSMENT
# 1200 JEFFERSON AVENUE AND ASSOCIATED PARCELS
# BUFFALO, NEW YORK

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# List of Acronyms

**ACMs** - Asbestos Containing Materials

**AIRS**- Aromatic Information Retrieval System

**AST** - Aboveground Storage Tank

**ASTM** - American Society for Testing and Materials

**BCA**- Brownfield Cleanup Agreement

**BCP**- Brownfield Cleanup Program

**Benchmark** - Benchmark Environmental Engineering & Science, PLLC

**BTEX** - Benzene, toluene, ethylbenzene, and xylenes

**CAA** – Clean Air Act

**CAMP**- Community Air Monitoring Plan

**CBS** - Chemical Bulk Storage

**C/D**- Construction and Demolition

**CERCLA** - Comprehensive Environmental Response, Compensation, and Liability Act

**CERCLIS** - Comprehensive Environmental Response, Compensation, and Liability Information System

**CESQG** - Conditionally Exempt Small Quantity Generator

**CFR**- Cod of Federal regulation

**COC**- Certificate of Completion

**CO2**- Carbon Dioxide

**CP**- Commissioner Policy

**CSCOs** – Commercial Soil Cleanup Objectives

**CVOC**- Chlorinated Volatile Organic Compound

**CORRACTS** - Corrective Action

**CPG** - Certified Professional Geologist

**CREC** - Controlled Recognized Environmental Condition

**DER**- Division of Environmental Remediation

**DNAPL**- Dense Non-Aqueous Phase Liquid

**EC**- Engineering Control

**ECL**- Environmental Conservation Law

**ECHO**- Enforcement and Compliance History Information

**ELAP**- Environmental Laboratory Approval Program

**EDR** - Environmental Data Resources, Inc.

**ERNS** - Emergency Response & Notification System

**ESA** – Environmental Site Assessment

**ETPH** - Extractable Total Petroleum Hydrocarbons

**FBGS** - Feet below ground surface

**FIFRA** - Federal Insecticide, Fungicide, & Rodenticide Act

**FINDS** - Facility Index System/Facility Registry System

**FOIA** - Freedom of Information Act

**FOIL** - Freedom of Information Letter

**FOP**- Field Operating Procedure

**NYSDOH** - New York State Department of Health

**NYSDOL** - New York State Department of Labor

**O&M**- Operations and Maintenance

**OM&M**- Operation, Maintenance, and Monitoring

**OPRA** - Open Public Records Act

**OSHA** - Occupational Safety and Health Administration

**PAH** - Polycyclic aromatic hydrocarbons

**PBS** - Petroleum Bulk Storage

**PCBs** - Polychlorinated Biphenyls

**pCi/L** - picoCuries per Liter

**PERC** - Tetrachloroethylene (perchloroethylene)

**PID** - Photo-Ionization Detector

**PPB** - Parts Per Billion

**PPM** - Parts Per Million

**PRP** - Potentially Responsible Party

**PRR**- Periodic Review Report

**PVEC** - Potential Vapor Encroachment Condition

**QA/QC**- Quality Assurance/Quality Control

**QAPP**- Quality Assurance Project Plan

**RAO**- Remedial Action Objective

**RAWP**- Remedial Action Work Plan

**RCRA** - Resource Conservation and Recovery Act

**RCRIS** - Resource Conservation and Recovery Information System

**REC** - Recognized Environmental Condition

**RI**- Remedial Investigation

**RI/FS**- Remedial Investigation/Feasibility Study

**ROD**- Record of Decision

**RP**- Remedial Party

**RRSCOs** – Restricted Residential Soil Cleanup Objectives

**RSCOs** – Residential Soil Cleanup Objectives

**RSO**- Remedial System Optimization

**SAC**- State Assistance Contract

**SACM** - Suspect Asbestos Containing Material

**SCG-** Standards, Criteria, and Guidelines

**SCO**- Soil Cleanup Objective

**SEMS** - Superfund Enterprise Management System (FKA CERCLIS)

**SHPO** - State Historic Preservation Office/Officer

**SHWS** - State Hazardous Waste Site

**SMP**- Soil Management Plan

**SOP**- Standard Operating Procedures

**SOW**- Statement of Work

| | |
|---|---|
| **FTTS**- FIFRA/TSCA Tracking System | **SPCC** - Spill Prevention Control and Countermeasure |
| **FWS** - Fish and Wildlife Service | **SPDES** - State Pollution Discharge Elimination System |
| **GIS** - Geographic Information Systems | **SQG** - Small Quantity Generator |
| **HASP**- Health and Safety Plan | **SSD**- Sub-slab Depressurization |
| **HREC** – Historic Recognized Environmental Condition | **SVE** - Soil Vapor Extraction |
| **HSWDS** - Hazardous Waste Disposal Site | **SVI**- Soil Vapor Intrusion |
| **HVAC** - Heating Ventilation and Air Conditioning | **SVOC** - Semi volatile Organic Compound |
| **IC**- Institutional Control | **SWF/LF** - Solid Waste Facility/Landfill |
| **ICIS** - Integrated Compliance Information System | **SWRCY** - Registered Recycling Facility List |
| **IRM** - Interim Remedial Measure | **TAL**- Target Analyte List |
| **ISCOs** – Industrial Soil Cleanup Objectives | **TCL**- Target Compound List |
| **LBP** - Lead-Based Paint | **TCE** - Trichloroethylene |
| **LNAPL**- Light Non-Aqueous Phase Liquid | **TCLP** - Toxicity Characteristic Leachate Procedure |
| **LQG** - Large Quantity Generator | **TRIS** - Toxic Chemical Release Inventory System |
| **LTANK** - Leaking Tank | **TSCA** - Toxic Substance Control Act |
| **LUST** - Leaking Underground Storage Tank | **TSDF** - Treatment, Storage and Disposal Facility |
| **MOSF** - Major Oil Storage Facility | **TurnKey** - TurnKey Environmental Restoration, LLC |
| **MSDS** - Material Safety Data Sheets | **USCOs** – Unrestricted Soil Cleanup Objectives |
| **MTBE** - Methyl Tertiary Butyl Ether | **USDA** - United States Department of Agriculture |
| **NA** - Not Available/Applicable | **USEPA** - United States Environmental Protection Agency |
| **NPDES** - National Pollutant Discharge Elimination System | **USGS** - United States Geological Survey |
| **NPL** - National Priorities List | **UST** - Underground Storage Tank |
| **NRCS** - Natural Resource Conservation Service | **VCP** - Voluntary Cleanup Program |
| **NYCRR**- New York Codes, Rules, and Regulations | **VEC** - Vapor Encroachment Condition |
| **NYSDEC** - New York State Department of Environmental Conservation | **VOC** - Volatile Organic Compound |

# 1.0 EXECUTIVE SUMMARY

The following details the findings of TurnKey relative to identifying RECs for 1200 Jefferson Avenue and associated parcels, Buffalo, Erie County, New York (Site).

## 1.1 General Information

TurnKey has performed a Phase I ESA of the Site in conformance with the scope and limitations of ASTM Practice E 1527-13 and the protocols required by the Client. This section summarizes the findings of the environmental professional relative to the Site. The reader is encouraged to read the entire report.

## 1.2 Site Description

The Site is located in a highly developed commercial and residential area of the City of Buffalo (see Figure 1). As shown on Figure 2, one structure is present on the Site. The existing building currently includes four tenants/operations: a maintenance warehouse, True Vine New Life Church, Smart Ride (automotive service of cab fleet vehicles) and Zee's Property Services Inc. (operations unknown, possible storage).

The Site consists of six parcels totaling 0.93-acres and is supplied with/has access to municipal sanitary sewer, electric, natural-gas and public water. Information relative to the specific parcels subject to this assessment, as provided by the City of Buffalo municipal offices, is provided below:

| Number | Street | Tax ID No. | Parcel Size (acres) | Current Owner | Current Use |
|---|---|---|---|---|---|
| 328 | Northampton St. | 100.57-2-38 | 0.11 | 1200 Jefferson Properties LLC | Asphalt paved parking area west of existing building. |
| 1200 | Jefferson Ave. | 100.57-2-37 | 0.41 | | A portion of the existing building. |
| 1212 | | 100.57-2-36 | 0.13 | | Northern portion of the existing building. |
| 1216 | | 100.57-2-35 | 0.09 | | Vacant lot |
| 1218 | | 100.57-2-34 | 0.09 | | Vacant lot |
| 1222 | | 100.57-2-33 | 0.1 | | Vacant lot |

## 1.3 Data Gaps

The following data gaps[1] were identified in completion of this inquiry.

| Type of Data Gap | Details of Data Gap | Sources Consulted | Significance |
|---|---|---|---|
| Historical Information | Historical information for the Site was not available at five-year intervals. | Previous studies, city directories, aerial photographs, Sanborn maps, topographic maps and municipal information. | This data gap did not significantly limit TurnKey's ability to provide an opinion on RECs related to the Site. |
| Abstract of Title | The abstract of title was not available for review at the time of report preparation. | Current property owner (i.e., user of this report). | This data gap did not significantly limit TurnKey's ability to provide an opinion on RECs related to the Site. |
| Site Reconnaissance | Parked vehicles, stored materials/equipment, snow cover and dense vegetation hindered observations at the time of the Site reconnaissance. In addition, TurnKey was unaccompanied at the time of the Site visit thus property boundaries were approximated. | Site reconnaissance | This data gap did not significantly limit TurnKey's ability to provide an opinion on RECs related to the Site. |

## 1.4 Environmental Report Summary

### *1.4.1 Summary of Site Reconnaissance Potential Concerns*

The following potential environmental concerns were identified at the time of the Site reconnaissance:

- On-Site operations include fleet vehicle repair with storage and use of hazardous/regulated materials in 55-gallon drums and containers of five-gallons or less. In addition, hazardous/regulated wastes such as waste oil and waste antifreeze are generated from automotive repair and such are stored in 10-gallon and 30-gallon containers.

[1] A data gap is defined by 40 CFR 312.10 as "a lack of or inability to obtain information required by the standards and practices" of preparation of this document "despite good faith efforts by the environmental professional" or others to gather such information.

- Black staining was noted to concrete ground surfaces throughout the automotive repair portion of the building, including areas proximate to floor drains. Black staining and a sheen was noted on liquid within the western-most floor drain within the automotive repair area. The integrity of the drain system is unknown.
- TurnKey is aware of previous USTs at the Site including at least one UST that was reportedly closed-in-place in the southern portion of the building. TurnKey observed a suspected former UST area with newly poured concrete east of the existing building proximate to a roof overhang and overhead door associated with Smart Ride.
- Concrete disturbances, likely associated with former laundry and dry cleaning equipment, were noted throughout the tenant space currently used as a maintenance warehouse. Additional interior concrete disturbances were noted proximate to an overhead door; such are suspected by TurnKey to be associated with a sewer cleanout/floor drain system.
- Concrete exposed on vacant land north of the existing building is suspected to be associated with a former building foundation.
- A circular disturbance west of the building may have been a former storm drain location; however, this could not be confirmed.
- An inactive brick vent stack, possibly for an incinerator, was noted off the west wall of the building. The vent stack appeared to have been sealed shut from within the building. There is the potential for remaining ash materials within the stack.
- Electronic equipment/wastes such as light ballasts could contain PCBs.
- Miscellaneous debris including waste vehicle tires, televisions, etc. was noted on exterior portions of the Site.
- Due to the urban location of the Site, especially as former buildings were located on current vacant land portions of the Site, there is the potential for fill materials from unknown origins at the Site.
- East adjacent operations currently include automotive repair. In addition, the south adjacent property is a current BCP Site (Jefferson Avenue Apartments Site).

### *1.4.2 Summary of Historic Uses*

| Approximate Years | Reported or Suspected Use | Owner/Occupant |
|---|---|---|
| At least 1893 to current | Developed with former buildings from at least 1893 to prior to 2006 with commercial operations including painting/paint shop, sheet metal works, furniture repair, a tailor, a blacksmith, a sausage factory and a coal, wood and hay company.<br><br>The original portion of existing building was constructed prior to 1926 with subsequent additions. Operations within the existing building included laundry/dry cleaning from at least 1935 through at least 2010. Additional commercial operation within the existing building included automotive painting from at least 1926 through at least 1930, auto body manufacturing/fabrication in at least 1935, and a garage/automotive repair facility since at least 1950. | Historic owners/occupants included, Pendrick Laundry and Dry Cleaners, Inc., Pendrick Laundry Inc., Jeff-North Corp., Acme Glass, Rachel Maten, Jessie Jackson, Henry Landsheft, Clark Bono, Angelica Healthcare, and the City of Buffalo.<br><br>Current owner is 1200 Jefferson Properties LLC with current occupants including True Vine New Life Church (south portion of building) and Zee's Property Services Inc. |

The following summarizes the tank history of the Site and other environmental concerns as per municipal records and historic Sanborn maps:

- 1926 – One gasoline tank appears east adjacent to the Site within the Jefferson Street right-of-way.
- 1937 – Install 5,000-gallon fuel oil UST apparently within a one-story brick building (former public garage) under renovation for use as a laundry facility by Pendrick's Laundry Co (1204-1208 Jefferson). The tank is identified as being installed within a "clay pit" and covered with three feet of fill and concrete.
- 1939 – A Fire Department document indicates final inspection of a 280-gallon gasoline UST installed for private use at the Pendrick Laundry facility (1202 Jefferson).
- 1940 – Install one 550-gallon UST (1200 Jefferson). Location not identified.
- 1940 –Install one 550-gallon gasoline UST at Pendrick Laundry (1208 Jefferson). A Fire Department record indicates that this 550-gallon UST replaced a previous 280-gallon UST.
- 1945 – A Fire Department Survey Document indicates the presence of one 550-gallon gasoline UST and an associated pump unit (1202 Jefferson). An accompanying hand-

drawn sketch depicts the tank and pump within a vacant lot along the south wall of a presumed former furniture storage warehouse (north of the Pendrick laundry facility).

- 1950 – One gasoline tank appears on the eastern portion of the Site (east of the garage) and an oil AST is identified along the north interior wall of the garage.
- 1954 – Install one 550-gallon UST (1200 Jefferson). Location not identified.
- 1961 – Repair laundry and garage due to fire damage (1204 Jefferson). A former building is identified as "fire ruins" on the 1950 Sanborn map. TurnKey believes such are separate fire events/buildings.
- 1989 – Fire record indicates chemical spill at laundry facility (1198 Jefferson). An additional document indicates the presence of three unlabeled 55-gallon drums that were on their sides and corroding at the rear of the Pendrick Laundry facility (1198 Jefferson).
- 1993 – Remove one 550-gallon UST and one 1,000-gallon UST (1202 Jefferson). A hand-drawn sketch depicts the USTs east of the building proximate to the roof overhang area with access to the Smart Ride space.

Regarding adjacent properties, such have a history of automotive repair and gasoline station operations. The south adjacent property referred to as the Jefferson Avenue Apartments Site was successfully entered into the BCP due to the presence of impacted fill materials (additional information is provided in the Regulatory Information section below).

### *1.4.3 Regulatory Information*

**Site Listings**

| Site Database Listings | Address/Name | Summary |
|---|---|---|
| RCRA NonGen/NLR, FINDS, ECHO, NY Manifest, EDR Historic Cleaner, Drycleaners, LTANKS, NY Spills, CBS, CBS AST | 1198-1208 Jefferson Ave./Pendrick Laundry & Pendrick Laundry Inc./ Angelica Textile Services, Inc. | Pendrick Laundry Inc. is listed as a RCRA non-generator of hazardous waste with no reported violations in addition to being included in the EDR dry cleaners database. Pendrick Laundry was identified as a small quantity generator of "other state regulated wastes" in at least 1993 and a large quantity generator of "spent halogenated solvents" on May 20, 1985. Pendrick Laundry Inc. is also included in the FINDS, ECHO, and NY Manifest databases. NY Manifest reports halogenated solvents contained within metal drums and barrels. |

| Site Database Listings (Continued) | Address/Name | Summary |
|---|---|---|
| RCRA NonGen/NLR, FINDS, ECHO, NY Manifest, EDR Historic Cleaner, Drycleaners, LTANKS, NY Spills, CBS, CBS AST | 1198-1208 Jefferson Ave./Pendrick Laundry & Pendrick Laundry Inc./ Angelica Textile Services, Inc. | Pendrick Laundry Inc. (also identified as Buffalo Institutional Service and Spotless Cleaning Co.) is listed as a historic cleaner/drycleaner database from at least 1940 through at least 2002.<br><br>The following spills were identified:<br><br>-Spill No. 8902796, dated June 17, 1989, identified as Angelica Textile Services, involved a drum of sodium hydrosulfite that was self-ignited from contact with water. The spill was "closed" by the NYSDEC on September 23, 1989.<br><br>-Spill No. 9305238, dated July 27, 1993, identified as Angelica Textile Services, involved impacts encountered while removing a 500-gallon gasoline UST located east of the building within the roof overhang area (proximate to Smart Ride). One 1,000-gallon No. 2 fuel oil UST, formerly located proximate to the 500-gallon gasoline UST, is also identified as being removed. One 8,000-gallon No. 6 fuel oil UST is identified as being closed-in-place in-place and filled with concrete within the southern portion of the building. The spill was reclassified as "closed" by the NYSDEC on January 28, 1994.<br><br>-Spill No. 9501902, dated May 1, 1995, identified as Angelica Textile Services, involved poor housekeeping practices with drums and machinery present behind the building. The spill was "closed" by the NYSDEC on May 30, 1995.<br><br>Two ASTs were identified under the CBS listings as follows:<br><br>-Tank 1: 1,000-gallon sodium hydroxide AST closed in 1999.<br>-Tank 2: 1,000-gallon chlorine AST closed in 1999. |
| ERNS | 1198 Jefferson Avenue | 1198 Jefferson Avenue is included in the ERNS database due to fumes caused by water splashed into a drum at a laundry mat in 1989. The material spilled is identified as sodium hydrosulfide. |

## Adjacent Property Listings

| Adjacent Database Listings | Address/Name | Summary |
|---|---|---|
| BCP | 1140 and 1162 Jefferson Avenue/Jefferson Avenue Apartments | This 1.57 acre adjacent property is identified as a BCP Site with a variety of historic commercial operations including automotive repair, a dealership service department, a trucking operation, paints and varnish/oils operations, sheet metal works and machine shops. Fill materials located across the Site are impacted with PAHs and/or metals at concentrations exceeding Part 375 SCOs.<br><br>TurnKey is involved with this project. The RI has recently been completed. IRM activities with excavation of fill material from this property are planned for the near future. |
| NY Spills | Jefferson & Northampton/NYNEX | Spill No. 9601909, dated May 8, 1995 involved equipment failure of a hydraulic line and the release of 20 gallons of hydraulic oil The spill was addressed was reclassified as "closed" by the NYDEC on November 18, 1996. |
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| SEMS-Archive, RCRA Non-Generator, Manifest | Intersection of Jefferson and Northampton Street/Jefferson Street Drum | These listings, presumably associated with Spill No. 9413833 discussed above, indicated that this presumed adjacent property is a removal only site with no site assessment work needed. The RCRA listings indicate LQG status in at least 1996 with non-listed ignitable wastes shipped off the property in 1995 |
| EDR Historic Auto | 1195 Jefferson Ave./Stadium Service Station | The adjacent property east of the Site is listed as a gasoline and oil service station from at least 1940 through at least 1972. |
| | 1199 Jefferson Ave./ Pacific Auto Service | The adjacent property east of the Site is listed as an automobile repairing/garage facility in at least 1930. |
| | 1209 Jefferson Ave./Philip D. Simon Garage | The adjacent property east of the Site is listed as an automobile garage in at least 1930. |
| | 212 Eaton St./Robert H. Buss Auto Repair | The adjacent property north of the Site is listed as an automobile repairing facility in at least 1940 through at least 1950. |
| | 1187 Jefferson Ave./Hall Service/Gas Station | The adjacent property southeast of the Site is listed as a gasoline and oil service station from at least 1940 through at least 1960. |

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| NY Spills | 1223 Jefferson Ave./Fire House Engine 21 Ladder | Spill No. 0506213, dated August 19, 2005, involved a 55-gallon drum with an unknown material. The spill was reported "closed" by the NYSDEC on August 23, 2005. |
| EDR Historic Cleaner, UST | 1229 Jefferson Ave./Leo A. Tschopp Clothing Cleaner/Engine 21 | The adjacent property northeast of the Site, identified as Leo A. Tschopp Clothing Cleaner, is listed as a cleaner and dryer facility in at least 1946.<br><br>One 1,000-gallon diesel fuel oil UST, installed on February 3, 2000, is listed as active and in service. |

Numerous regulatory listings were identified for nearby properties located within the search radii. None of the listings associated with nearby properties suggested a specific environmental concern at the Site.

### *1.4.4 Other Findings*

Historic laundry/dry cleaning operations at the Site are considered a potential VEC. Additional on-Site operations such as painting and automotive repair are also considered a potential VEC due to the reasonably anticipated use of hazardous/regulated materials.

### *1.4.5 Interviews/Questionnaires*

The current property owner completed TurnKey's Environmental Questionnaire and identified the Site as having a history of storage and warehousing. The current property owner also identified the intended use of the Site as storage and light manufacturing.

The City of Buffalo Building Inspector believes an UST remains on-Site. TurnKey suspects the Building Inspector may be referring to the closed-in-place No. 6 fuel oil UST identified under Spill No. 9305238.

## 1.5 Report Findings

Where applicable for the Site, the following is a list of RECs, CRECs, HRECs, and de minimis conditions. Non-scope considerations are also provided.

**RECs**

Per ASTM E1527, an REC is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

TurnKey's investigation revealed the following RECs in connection with the Site:

- The long history of dry cleaning and automotive repair operations are considered RECs due to the reasonably anticipated use of solvents and/or petroleum. The variety of historic operations such as painting, sheet metal works, tailor, furniture repair, etc. are considered RECs due to the potential for environmental impacts. Such operations are considered a potential VEC.
- Black staining noted within the current automotive repair area, including the staining and sheen noted on liquid within the floor drain, are considered RECs due to the potential for subsurface impacts and as the integrity of the floor drain system is unknown.
- The USTs identified for the Site are considered RECs as sufficient tank closure documentation is apparently unavailable.
- Historic NYSDEC Spill Incidents identified for the Site (Nos. 8902796, 9305238 and 9501902) are considered RECs due to the potential for remaining impacts.
- The vent stack is considered a REC due to the potential for remaining ash within the unit.
- Electronic wastes (i.e., light ballasts possibly containing PCBs) are considered RECs as such will require proper off-site disposal.
- The potential for miscellaneous urban fill materials exists on-Site due to its urban location and as former building areas have been brought to grade. The presence of urban fill material from unknown sources is considered a REC due to the potential for impacts. Note that there is the potential for similar impacted fill materials at the Site to that identified at the south adjacent Jefferson Avenue Apartments BCP Site.
- Historic adjacent automotive repair and gasoline station operations are considered RECs due to the potential for environmental impacts.

**Controlled RECs**

Per ASTM E1527, a CREC is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

TurnKey's ESA did not reveal CRECs for the Site.

**Historic RECs**

Per ASTM E1527, a HREC is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). For example, a spill that has been remediated to the satisfaction of the appropriate regulators would be considered a HREC.

TurnKey's investigation revealed the following HRECs for the Site:

- The "closed" and "inactive" spill incidents identified for adjacent/nearby properties are considered HRECs as such have been addressed to the satisfaction of the NYSDEC.

**De-minimis Conditions**

In accordance with ASTM E-1527, de-minimis conditions are conditions that generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de-minimis conditions are neither RECs nor CRECs.

TurnKey's investigation revealed the following de-minimis conditions for the Site:

- The miscellaneous debris including waste vehicle tires, televisions, etc. noted on exterior portions of the Site are considered de-minimis as TurnKey understands that such are to be disposed of off-site.

**Non-Scope Considerations**

Per ASTM E1527-13, non-scope considerations are described as ancillary observations during performance of the on-site investigation. Non-scope considerations are not considered RECs under ASTM E1527, but may represent health or environmental issues impacting the Site and/or property value.

TurnKey's investigation identified the following non-scope considerations:

- Based on the ages of the existing buildings, the potential for suspect ACMs and lead exists. Asbestos and/or lead, if present, should be properly handled as part of future renovation/demolition activities.
- No visual evidence of mold was noted at the time of the Site reconnaissance.
- No wetland or flood zone areas were identified on-site or adjacent to the Site.
- Research in the area of the Site completed by the New York State Department of Health - Bureau of Environmental Radiation Protection (Radon) suggests an average basement radon concentration of 1.14 pCi/L in the area of the Site, which is below the USEPA action level of 4.0 pCi/L. As such, radon is not anticipated to be a concern.

## 1.6 Opinion

Due to the RECs identified above, TurnKey recommends completion of a Phase II Environmental Investigation on-Site to assess subsurface soil and groundwater conditions.

# 2.0 INTRODUCTION

## 2.1 Purpose

The primary purpose of this assessment was to provide Sinatra and Company Realty with sufficient information about the potential environmental risks associated with the Site.

A secondary purpose of this study was to document the inquiry of the environmental professional for all appropriate inquiries for the Site. Specifically, this document is intended to provide the "all appropriate inquiries" for the purposes of CERCLA Section 101(35)(B). Such is applicable to persons seeking to qualify for: (i) the innocent landowner defense pursuant to CERCLA Sections 101(35) and 107(b)(3); (ii) the bona fide prospective purchaser liability protection pursuant to CERCLA Sections 101(40) and 107(r); and (iii) the contiguous property owner liability protection pursuant to CERCLA Section 107(q). This report was not intended as part of the Site characterization and assessment with use of a grant awarded under CERCLA Section 104(k)(2)(B). More specifically, the scope is intended to identify conditions indicative of releases or threatened releases of hazardous substances in, on, or at the Site.

## 2.2 Scope of Work

The scope of work is intended to identify RECs at the Site, including the following tasks:

A) Review of information provided by the User of this Report regarding commonly known or reasonably available information about the Site.
B) Interviews with past and present owners, operators and occupants (if available).
C) Review of historical sources of information documenting the Site's use.
D) Review of Federal, State, tribal and local government records.
E) A visual inspection of the Site and adjoining properties (to the extent possible).
F) Preparation of this written report.

## 2.3 Significant Assumptions

No significant assumptions were made during completion of this study other than as identified Section 2.4.

## 2.4 Limitations and Exceptions

### *2.4.1 Limitations*

To the extent of our knowledge, the information contained in this Report is true and accurate. TurnKey personnel have exercised due diligence in the compilation of the information contained herein appropriate to environmental professionals engaged in investigations of this nature. TurnKey makes no guarantees regarding the accuracy of information gained from other sources.

This Phase I ESA is based on current and historical information reviewed by TurnKey and their Site inspection. This Report is not to be considered an environmental audit of the Site or a complete environmental investigation of the Site. Further, the purpose of this assessment is not to proclaim a property is devoid of environmental impact but rather to identify RECs, as defined above.

This Phase I ESA makes no warranties nor implies any liability regarding:

1. Site specific practices and/or disposal methods of the past or future owners.
2. Adjacent property owners, their environmental practices and/or impact of such properties and practices on the subject property other than observed from the subject property.
3. Unreported spills.
4. Practices, waste disposal, environmental concerns and/or modifications to waste site indexes after the date on this Report.
5. Site groundwater or soil conditions.
6. Accuracy or completeness of information supplied to TurnKey by others.
7. Environmental conditions in areas not practically or safely accessible.
8. Accuracy of previous studies (if any) provided to TurnKey.

This Report is also subject to any and all limitations defined within ASTM E1527-13. This includes, but is not limited to, the limitation that this Report is intended to identify environmental conditions at a specific time and is only valid for a period of six months from the date of issuance.

The principles defined within ASTM E1527-13, and followed within this study, include the following.

- This practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property.
- All appropriate inquiry does not mean an exhaustive assessment of a clean property. One of the purposes of this practice is to identify a balance between limiting costs/time and the reduction of uncertainty about unknown conditions.
- The level of inquiry is variable and depends on the type of property, risk level of the user and information developed in the course of the inquiry.
- Subsequent environmental assessments should not be used as standards to evaluate the appropriateness of prior inquiries based on hindsight, new information or new techniques.

### *2.4.2 User Responsibilities*

The following information is the responsibility of the user and not of the environmental professional. This information may be provided by the user to the environmental professional for use in the final opinion of the all appropriate inquiry. If the information is not provided by the user, the environmental professional's ability to render such an opinion may be hindered and identified as a data gap.

- Searches for environmental cleanup liens against the subject property that are filed or recorded under any Federal, State, tribal, or local law, as required by 40 CFR Section 312.25.
- Assessments of any specialized knowledge or experience on the part of the landowner, as required by 40 CFR Section 312.28.
- An assessment of the relationship of the purchase price to the fair market value of the subject property, if the property was not contaminated, as required by 40 CFR Section 312.29.
- An assessment of commonly known or reasonably ascertainable information about the subject property, as required by 40 CFR Section 312.30.

### *2.4.3 User Protections*

Persons claiming the liability protections under CERCLA must meet the statutory requirements of one of the following landowner liability protections. [It should be noted that the user must also satisfy certain continuing obligations outside the scope of this Phase I Environmental Assessment, as required by CERCLA].

- The innocent landowner defense pursuant to CERCLA Sections 101(35) and 107(b)(3).
- The bona fide prospective purchaser liability protection pursuant to CERCLA Sections 101(40) and 107(r).
- The contiguous property owner liability protection pursuant to CERCLA Section 107(q).

## 2.5 Deviations

There were no deviations from the ASTM 1527-13 standard during the completion of this study except that a regulatory file review was not completed. The ASTM 1527-13 standard indicates that completion of a regulatory file review for Site and adjacent property regulatory listings is at the discretion of the Environmental Professional. In this case, completion of a regulatory file review was not completed by TurnKey as: regulatory listings were not identified; completion of the file review was not anticipated to provide new or significant information; or records were not considered reasonably ascertainable in the timeframe of the report deliverable.

## 2.6 Special Terms and Conditions

The work was completed in accordance with the executed Master Professional Services Agreement between Sinatra & Company Realty and TurnKey dated September 22, 2011.

## 2.7 Reliance, Certification, and Declaration

This report was prepared for the exclusive use of Sinatra and Company Realty their respective affiliates and subsidiaries, and all successors and assigns thereof. Any other use, or using this Report in a fashion in which it was not intended, is at the sole risk of the user. No other party may rely on this Report unless expressly authorized in writing by TurnKey. Reliance may only be granted upon written consent and is subject to those same terms and conditions as expressed in the Master Professional Service Agreement.

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature,

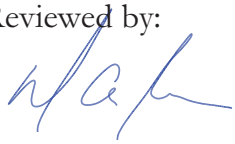
history and setting of the Site. We have developed and performed the all-appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



**Bryan Mayback**
**Senior Project Scientist**

Reviewed by:



**Michael A. Lesakowski**
**Principal**

# 3.0 SITE/VICINITY DESCRIPTION

## 3.1 Location and Legal Description

The Site is located in Buffalo, New York and consists of six individual tax parcel(s) legally described as Parcel No(s). 100.57-2-38 (Parcel 1), 100.57-2-37 (Parcel 2), 100.57-2-36 (Parcel 3), 100.57-2-35 (Parcel 4), 100.57-2-34 (Parcel 5), and 100.57-2-33 (Parcel 6).

## 3.2 Activity/Use Limitations

TurnKey is not aware of any institutional controls or activity/use limitations imposed against the referenced Site.

## 3.3 Site and Vicinity Description

The Site is located in a highly developed commercial and residential area of the City of Buffalo (see Figure 1). As shown on Figure 2, one structure is present on the Site. The existing building currently includes four tenants/operations: maintenance warehouse, True Vine New Life Church, Smart Ride (automotive service of cab fleet vehicles) and Zee's Property Services Inc. (operations unknown, possible storage).

The Site consists of six parcels totaling 0.93-acres and is supplied with/has access to municipal sanitary sewer, electric, natural-gas and public water. The Site is further described in the table below:

| General Site Information | |
|---|---|
| Site Addresses | 1200-1222 Jefferson Ave. and 328 Northampton St. |
| Municipality, County, State | Buffalo, Erie County, New York |
| Current Site Use | Commercial and vacant lots |
| Fronting Streets | Jefferson Ave., Northampton St. and Eaton St. |
| Site Size | 0.93-acres (per municipal information) |
| Site Topography | Generally level at grade. |
| General Site Elevation (feet above mean sea level) | 640 |
| Nearest Water Body | Scajaquada Creek located approx. 1.1 miles north of the Site |
| Improvements | Asphalt paved areas, green areas and trees |

## 3.4 Current Use of Property

The Site, as further described below, is currently used for commercial purposes.

| Number | Street | Tax ID No. | Parcel Size (acres) | Current Owner | Current Use |
|---|---|---|---|---|---|
| 328 | Northampton St. | 100.57-2-38 | 0.11 | 1200 Jefferson Properties LLC | Asphalt paved parking area west of existing building. |
| 1200 | Jefferson Ave. | 100.57-2-37 | 0.41 | | A portion of the existing building. |
| 1212 | | 100.57-2-36 | 0.13 | | Northern portion of the existing building. |
| 1216 | | 100.57-2-35 | 0.09 | | Vacant lot |
| 1218 | | 100.57-2-34 | 0.09 | | Vacant lot |
| 1222 | | 100.57-2-33 | 0.1 | | Vacant lot |

## 3.5 Description of Structures and Other Improvements

| On-Site Building and Improvements Summary | |
|---|---|
| Building Number | Existing Building |
| Square Footage (approximate) | 25,571 |
| Building Identification/Use | Commercial building |
| No. of Stories | One and two-story portions |
| Basement | None |
| Roof Type | Flat |
| Building Envelope | Poured concrete, concrete block, steel and wood |
| Building Siding | Brick, stucco, aluminum and vinyl |
| Heating System | Natural-gas fired ceiling-mounted units |
| Building Construction Date | Original/northern portion constructed in 1938 with addition in 1940 (per municipal information) |
| Utilities Provided | Natural-gas, public water, municipal sanitary sewer and electric |

## 3.6 Adjoining Property Information

The adjacent properties were visually inspected from the Site at the time of the Site reconnaissance. The surrounding property uses include the following:

| Direction | Current Use | Apparent Past Use | Comments/Concerns |
|---|---|---|---|
| **North** | Miracle Christian Fellowship Center and residential | Commercial and residential | Adjacent operations such as automotive repair and former gasoline stations could result in impacts to the environment. |
| **Northeast** | Buffalo Fire Department | Commercial | |
| **South:** | Jefferson Avenue Apartments BCP Site | Commercial with automotive repair | |

| | | | |
|---|---|---|---|
| **Southeast** | Cold Spring Taxi and Dispatch Service | Commercial with filling station | |
| **East:** | St. John's Masonic Lodge, BP Auto Group (used auto sales) | Commercial with historic filling station | |
| **West:** | Urban farm/garden, residential and vacant lot | Residential | |

# 4.0 USER PROVIDED INFORMATION

As required under 40 CFR 312, those seeking liability protection under CERCLA, for which this Report is prepared, must provide the environmental professional certain information and documentation. TurnKey requested information from Mr. Matt Connors of Sinatra and Company Realty, representing the User, with responses to that inquiry as follows:

## 4.1 Environmental Liens

According to Mr. Connors, there are no environmental cleanup liens against the Site that are filed or recorded under federal, tribal, state or local law.

## 4.2 Activity Use Limitations

According to Mr. Connors, there are no engineering controls, land use restrictions or institutional controls in place, filed or recorded under federal, tribal, state or local law.

## 4.3 Specialized knowledge or experience

Mr. Connors does not have specialized knowledge or experience related to the Site or nearby properties.

## 4.4 Purchase Price

Mr. Connors indicated that the purchase price paid or being paid for the property reasonably reflects the fair market value of the property.

## 4.5 Commonly Known or Reasonably Ascertainable Information

Mr. Connors is aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases at the Site. Specifically, Mr. Connors identified the past use of the property as a dry cleaner and taxi service.

## 4.6 Obvious Indicators

Mr. Connors is not aware of any obvious indicators that point to the presence or likely presence of contamination at the property.

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Appendix I includes the completed user questionnaire.

# 5.0 RECORDS REVIEW

## 5.1 Standard Environmental Records Sources

Federal and state environmental regulatory information provided by Environmental EDR was reviewed at the radii defined in 40 CFR 312.26 (see Appendix A). Any sites unplottable by EDR were also reviewed, to the extent practical based on the site name and address, to assess whether they are also present within their appropriate radii. Any relevant listings such as those for the Site or any adjacent sites are included in the following table. Refer to Appendix A for complete acronym definitions.

**Site Listings**

| Site Database Listings | Address/Name | Summary |
|---|---|---|
| | | Pendrick Laundry Inc. is listed as a RCRA non-generator of hazardous waste with no reported violations in addition to being included in the EDR dry cleaners database. Pendrick Laundry was identified as a small quantity generator of "other state regulated wastes" in at least 1993 and a large quantity generator of "spent halogenated solvents" on May 20, 1985. Pendrick Laundry Inc. is also included in the FINDS, ECHO, and NY Manifest databases. NY Manifest reports halogenated solvents contained within metal drums and barrels. |
| RCRA NonGen/NLR, FINDS, ECHO, NY Manifest, EDR Historic Cleaner, Drycleaners, LTANKS, NY Spills, CBS, CBS AST | 1198-1208 Jefferson Ave./Pendrick Laundry & Pendrick Laundry Inc./ Angelica Textile Services, Inc. | Pendrick Laundry Inc. (also identified as Buffalo Institutional Service and Spotless Cleaning Co.) is listed as a historic cleaner/drycleaner database from at least 1940 through at least 2002.<br><br>The following spills were identified:<br><br>-Spill No. 8902796, dated June 17, 1989, identified as Angelica Textile Services, involved a drum of sodium hydrosulfite that was self-ignited from contact with water. The spill was "closed" by the NYSDEC on September 23, 1989.<br><br>-Spill No. 9305238, dated July 27, 1993, identified as Angelica Textile Services, involved impacts encountered while removing a 500-gallon gasoline UST located east of the building within the roof overhang area (proximate to Smart Ride). One |

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| | | 1,000-gallon No. 2 fuel oil UST, formerly located proximate to the 500-gallon gasoline UST, is also identified as being removed. One 8,000-gallon No. 6 fuel oil UST is identified as being closed-in-place in-place and filled with concrete within the southern portion of the building. The spill was reclassified as "closed" by the NYSDEC on January 28, 1994.<br><br>-Spill No. 9501902, dated May 1, 1995, identified as Angelica Textile Services, involved poor housekeeping practices with drums and machinery present behind the building. The spill was "closed" by the NYSDEC on May 30, 1995.<br><br>Two ASTs were identified under the CBS listings as follows:<br><br>-Tank 1: 1,000-gallon sodium hydroxide AST closed in 1999.<br>-Tank 2: 1,000-gallon chlorine AST closed in 1999. |
| ERNS | 1198 Jefferson Avenue | 1198 Jefferson Avenue is included in the ERNS database due to fumes caused by water splashed into a drum at a laundry mat in 1989. The material spilled is identified as sodium hydrosulfide. |

## Adjacent Property Listings

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| | | |
|---|---|---|
| NY Spills | Jefferson and Northampton/Abandoned Drums of Paint | Spill No. 9413833, dated November 1, 1994 involved the presence of more than 50 abandoned drums of paint, thinners, varnish, lacquer, etc. and more than 40 pails of paint with the possibility of a release to the environment. The spill was reclassified as "closed" by the NYSDEC on January 31, 1995. |
| SEMS-Archive, RCRA Non-Generator, Manifest | Intersection of Jefferson and Northampton Street/Jefferson Street Drum | These listings, presumably associated with Spill No. 9413833 discussed above, indicated that this presumed adjacent property is a removal only site with no site assessment work needed. The RCRA listings indicate LQG status in at least 1996 with non-listed ignitable wastes shipped off the property in 1995 |
| EDR Historic Auto | 1195 Jefferson Ave./Stadium Service Station | The adjacent property east of the Site is listed as a gasoline and oil service station from at least 1940 through at least 1972. |
| | 1199 Jefferson Ave./ Pacific Auto Service | The adjacent property east of the Site is listed as an automobile repairing/garage facility in at least 1930. |
| | 1209 Jefferson Ave./Philip D. Simon Garage | The adjacent property east of the Site is listed as an automobile garage in at least 1930. |
| | 212 Eaton St./Robert H. Buss Auto Repair | The adjacent property north of the Site is listed as an automobile repairing facility in at least 1940 through at least 1950. |
| | 1187 Jefferson Ave./Hall Service/Gas Station | The adjacent property southeast of the Site is listed as a gasoline and oil service station from at least 1940 through at least 1960. |
| NY Spills | 1223 Jefferson Ave./Fire House Engine 21 Ladder | Spill No. 0506213, dated August 19, 2005, involved a 55-gallon drum with an unknown material. The spill was reported "closed" by the NYSDEC on August 23, 2005. |
| EDR Historic Cleaner, UST | 1229 Jefferson Ave./Leo A. Tschopp Clothing Cleaner/Engine 21 | The adjacent property northeast of the Site, identified as Leo A. Tschopp Clothing Cleaner, is listed as a cleaner and dryer facility in at least 1946.<br><br>One 1,000-gallon diesel fuel oil UST, installed on February 3, 2000, is listed as active and in service. |

**Nearby Properties**

Additional regulatory listings were identified for nearby properties. Brief summaries of the relevant listings are provided in the table below.

| Nearby Database Listings | Address/Name | Summary |
|---|---|---|
| SHWS, SEMS-Archive, Eng/Inst Controls, RCRA, Manifest | 84 Kingsley Street/Diarsenol Company | This property, located over one-eighth mile from the Site, is a former waste disposal area. Listing details indicate that remediation is complete and the property is not considered a threat to the environment. This property is classified as "properly closed – requires continued management." |
| NY Spills and LTANKS | Several properties | The remaining spill incidents identified within the search radii for nearby properties are classified as "inactive" or "closed" by the NYSDEC. |
| Numerous Database Listings | Various properties | The numerous remaining regulatory listings were reviewed by TurnKey and none of the information suggested a specific environmental concern at the Site; see below for additional information. |

In addition to the nearby properties listed above, several additional sites located proximate to the Site are listed on one or more environmental databases. However based on TurnKey's review, each of these additional sites falls in one or more of the following categories:

- It is listed on databases that indicate a potential for, but not an actual documented current or historical release (e.g., RCRA small quantity generator or large quantity generator; registered chemical bulk storage or petroleum bulk storage sites). As such, these sites are not considered to pose an REC at the Site due to absence of a documented release.
- It is located greater than one-eighth mile from the Site, and is not considered an REC based on the distance from the Site.
- It is present at a location that is not expected to pose potential for impact on the Site due to topography and likely groundwater flow direction, and is not considered an REC based on unlikelihood for impacts associated with migration of contaminants onto the Site.

The discussion included above regarding adjacent and surrounding properties is based on information supplied to TurnKey as well as observations of nearby properties at the time of the Site reconnaissance. Further study would be required to positively confirm whether the Site has been impacted by nearby properties. It is also important to note that the environmental history and status of nearby properties, real or perceived, can affect the valuation of the target property.

## 5.2 Additional Environmental Record Sources

To augment the information provided by EDR, a FOIA request was forwarded to the NYSDEC for information concerning the Site (see Appendix B). The information obtained from the FOIA response appeared generally consistent with the Site regulatory listings summarized above. In response to the FOIL, the NYSDEC provided previous studies/documents such as spill reports associated with the Site. That additional information was included in the regulatory tables above, where applicable.

TurnKey also completed a search on the NYSDEC website of readily available records for the Site, including an Environmental Site Database Search for spills, remedial sites and bulk storage facilities. A search of the USEPA Envirofacts website was also completed. The information obtained from the on-line research and the NYSDEC FOIA response appeared generally consistent with the Site regulatory listings summarized above.

## 5.3 Physical Setting Sources

Figure 1 shows the Site on an undated USGS Topographic Map, Buffalo NE Quadrangle. The Site is located in a highly developed residential and commercial area. Due to extensive development in the area of the Site, individual structures are not shown on the map.

Groundwater flow is likely to the north toward Scajaquada Creek. Local groundwater flow, however, may be influenced by subsurface features, such as excavations, utilities, and localized fill-conditions.

## 5.4 Historical Use

The historical use of the Site has been researched through review of previous studies, historic Sanborn maps, historic aerial photographs, municipal records, historic topographic maps, and/or other reasonably obtainable documents. The following sections summarize TurnKey's research.

### *5.4.1 Historic Aerial Photographs*

Historical aerial photographs serve to reveal former topography, buildings, structures and man-made works such as canals, lagoons and railroads that may have been altered or may no longer be in existence. Historical aerial photographs were obtained for additional historical information relative to the Site and surrounding area. Appendix C includes copies of the aerial photographs provided by EDR. Visual observations were limited on some aerial photographs due to poor quality.

| YEAR | OBSERVATIONS |
|---|---|
| 1938-1995 | |
| Site | The site appears to be developed with the existing building and presumed former buildings on the northern and western portions of the Site. |
| North | Commercial and residential |
| South | Commercial and residential |
| East | Commercial and residential |
| West | Residential |
| 2006-2011 | |
| Site | The existing building appears in its current configuration. Former buildings are no longer present. |
| North | Commercial and residential |
| South | Commercial and residential |
| East | Commercial and residential |
| West | Residential |

### *5.4.2 Historical Sanborn Maps*

Sanborn maps serve to reveal former buildings, building uses, and man-made works such as canals, lagoons and railroads that may have been altered or may no longer be in existence. Historic addresses identified for the Site were identified as 1198-1222 Jefferson Ave., 328-330 Northampton St., and 211 Eaton St. The following table summarizes the maps. Appendix D includes copies of the Sanborn Maps provided by EDR.

| YEAR | OBSERVATIONS |
|---|---|
| 1893 | |
| Site | The Site consists of multiple former commercial and residential structures. Commercial operations are identified as a meat shop, a wagon shop, a blacksmith, a coal, wood, hay company, storefronts and a saloon. |
| North | Saloon and residential |
| South | Commercial stores and residential |
| East | Saloon, undertaker, commercial stores and residential |
| West | Residential |
| 1899 | |
| Site | The Site appears generally consistent with above with former residential and commercial buildings. Commercial operations include a sausage factory, a paint shop, a blacksmith, a bowling alley, a coal shed and a harness shop. An ice house and smoke shop are also located on-Site. |
| North | Commercial stores and residential |
| South | Commercial stores and residential |
| East | Drug store, saloons, plumbers, cobbler, offices and commercial stores. |
| West | Residential |
| 1926 | |
| Site | The Site appears to be developed with a presumed original portion of the existing building identified as being used for auto painting, auto storage, upholstering, storage and general painting. [TurnKey is aware of discrepancies relative to the construction date of the existing building as municipal records indicate the original portion of the building as being built in 1938.] Former commercial buildings appear on the northern portion of the Site with operations including household storage and storefronts and on the southern portion of the Site with sheet metal works and a storefront. A former residence is located on the western portion of the Site.<br><br>A gasoline UST appears east adjacent to the Site within the Jefferson Street right-of-way. |
| North | Automotive repair, commercial stores and residential |
| South | Automotive and storage, commercial stores and residential. |
| East | Drug store and commercial stores with 20 car garage. |
| West | Residential |
| 1950 | |
| Site | Operations within the original portion of the existing building include dry cleaning, laundry and a vehicle garage. A gasoline UST appears east of the garage and an oil AST is identified along the north interior wall of the garage. Former buildings on the northern portion of the Site are identified as storefronts a restaurant and a paint/wallpaper shop. Fire ruins are identified north of the original portion of the existing building. A former residence remains on the western portion of the Site. |

| | |
|---|---|
| North | Automotive repair, restaurant and commercial store. |
| South | Paints and varnish, commercial business and residential. |
| East | Gasoline filling stations with two gasoline USTs and commercial stores. An additional filling station with three gasoline USTs appears southeast adjacent to the Site. |
| West | Residential |
| 1986 | |
| Site | The existing building appears in its current configuration with a laundry operation, a vehicle garage and commercial operations (specific uses not identified). A former restaurant and commercial building appear on the northern portion of the Site. |
| North | Automobile wash, and restaurant. |
| South | Parking lot and residential. |
| East | Candy manufacturer, gasoline filling station (no tanks depicted), parking lot and commercial stores. The southeast filling station is now identified as a used auto sales business. |
| West | Residential |

### *5.4.3 Historical City Directories*

Historic city directories, dated between 1925 and 2014, were reviewed (generally in five-year intervals) through an EDR database search for additional information regarding the Site. Addresses are included where listings were identified. Operations of environmental concern are shown as bold. Appendix E includes a copy of the abstract report.

| Year | Address | Site Listing(s) |
|---|---|---|
| 2014 | 1202 Jefferson Ave | **Smart Ride Ltd., FFG Enterprises Ltd.** |
| 2010 | 1202 Jefferson Ave | **FFG Enterprises Ltd. Spotless One Cleaning Co., Smart Ride Ltd.** |
| 2008 | 1202 Jefferson Ave | **FFG Enterprises Ltd. Parking stations & garages** |
| 2001 | 1198 Jefferson Ave | Angelica Healthcare Clinic |
| | 1218 Jefferson Ave | Club 1218 social club |
| 1998 | 1198 Jefferson Ave | **Linen supply, Angelica Textile Services** |
| | 1218 Jefferson Ave | Club 1218 drinking places |
| 1992 | 1198 Jefferson Ave | **Buffalo Institutional Service** |
| | 1212 Jefferson Ave | Vacant |
| | 1216 Jefferson Ave | Vacant |
| | 1218 Jefferson Ave | Club Twelve Eighteen tavern |
| 1985 | 1198 Jefferson Ave | **Pendrick Laundry Inc., Buffalo Institutional Service laundry** |
| | 1212 Jefferson Ave | Buffalo Amusement & Vending Co. sales & service |
| | 1216 Jefferson Ave | Vacant |
| | 1218 Jefferson Ave | Club Twelve Eighteen tavern |
| | 1222 Jefferson Ave | Vacant |
| 1980 | 1198 Jefferson Ave | **Al Jo Cleaners diaper service, Pendrick Laundry Inc.** |
| | 1212 Jefferson Ave | Buffalo Amusement & Vending Co. sales & service |
| | 1216 Jefferson Ave | Turquoise Diner |
| | 1218 Jefferson Ave | Club Twelve Eighteen tavern |
| | 1222 Jefferson Ave | Individual tenant, Allen Construction Co. |
| 1975 | 1198 Jefferson Ave | Tidy Didy Service diaper service, **Pendrick Laundry Inc.** |

| | | |
|---|---|---|
| | 1212 Jefferson Ave | Buffalo Amusements vending machines & sen. |
| | 1216 Jefferson Ave | Kirkland Diner |
| | 1218 Jefferson Ave | Club Twelve Eighteen tavern |
| | 1222 Jefferson Ave | Individual tenant, vacant |
| | 328 Northampton St | Vacant |
| 1970 | 1198 Jefferson Ave | **Pendrick Laundry Inc.** |
| | 1212 Jefferson Ave | Vacant |
| | 1216 Jefferson Ave | Turquoise Diner Restaurant |
| | 1218 Jefferson Ave | General Catering Service Inc. |
| | 1220 Jefferson Ave | Vacant |
| | 1222 Jefferson Ave | Individual tenants |
| | 328 Northampton St | Individual tenants |
| 1964 | 1198 Jefferson Ave | **Pendrick Laundry Inc.** |
| | 1212 Jefferson Ave | Storage |
| | 1216 Jefferson Ave | Turquoise Diner |
| | 1218 Jefferson Ave | Vacant |
| | 1220 Jefferson Ave | Vacant |
| | 1222 Jefferson Ave | Individual tenant, Hadley's Wallpaper & Paint |
| | 328 Northampton St | Individual tenants |
| 1960 | 1198 Jefferson Ave | **Pendrick Laundry Inc.** |
| | 1200 Jefferson Ave | Individual tenant |
| | 1212 Jefferson Ave | Vacant |
| | 1216 Jefferson Ave | Individual tenant, Brochman's Restaurant |
| | 1218 Jefferson Ave | Stadium Post No. 1368 VFW |
| | 1222 Jefferson Ave | Individual tenant, wallpaper retail |
| | 328 Northampton St | Individual tenants |
| 1955 | 1198 Jefferson Ave | **Pendrick Laundry Inc.** |
| | 1212 Jefferson Ave | LJ Coon Heating |
| | 1216 Jefferson Ave | Individual tenant, Brockman's Restaurant |
| | 1218 Jefferson Ave | Stadium Post No. 1369 VFW |
| | 1222 Jefferson Ave | Individual tenant, wallpaper |
| | 328 Northampton St | Individual tenant |
| 1950 | 1198 Jefferson Ave | **Pendrick Laundry Inc. plant** |
| | 1202 Jefferson Ave | **Pendrick Laundry Inc.** |
| | 1212 Jefferson Ave | Vacant |
| | 1216 Jefferson Ave | Individual tenant, Restaurant |
| | 1218 Jefferson Ave | Stadium Post No. 1369 VFW |
| | 1220 Jefferson Ave | Barber |
| | 1222 Jefferson Ave | Individual tenants, wallpaper |
| | 328 Northampton St | Individual tenant |
| | 211 Eaton St | Warehouse |
| 1946 | 1198 Jefferson Ave | **Pendrick Laundry Inc. plant** |
| | 1202 Jefferson Ave | **Pendrick Laundry Inc.** |
| | 1212 Jefferson Ave | **Acme Plate Glass Co., Amthor Glass & Mirror Co.** |
| | 1216 Jefferson Ave | Individual tenant, Restaurant |
| | 1220 Jefferson Ave | Barber |
| | 1222 Jefferson Ave | Individual tenants, wallpaper |
| | 328 Northampton St | Individual tenant |
| | 211 Eaton St | Storeroom |
| 1940 | 1198 Jefferson Ave | Grocery and meats |
| | 1202 Jefferson Ave | **Pendrick Laundry Inc.** |
| | 1212 Jefferson Ave | EJ Barry & Co. warehouse |
| | 1216 Jefferson Ave | Individual tenant, Restaurant |

| | | |
|---|---|---|
| | 1218 Jefferson Ave | Individual tenant, **tailor** |
| | 1220 Jefferson Ave | Barber |
| | 1222 Jefferson Ave | Individual tenant, wallpaper |
| | 328 Northampton St | Vacant |
| | 211 Eaton St | Umbrellas |
| 1935 | 1198 Jefferson Ave | Gustaph A. Weiss meats |
| | 1200 Jefferson Ave | **Auto body manufacturer** |
| | 1204 Jefferson Ave | **Auto body manufacturer** |
| | 1210 Jefferson Ave | **Reliable Furniture Works** |
| | 1212 Jefferson Ave | EJ Barry & Co. warehouse |
| | 1214 Jefferson Ave | EJ Barry & Co. warehouse |
| | 1216 Jefferson Ave | Vacant |
| | 1218 Jefferson Ave | **Tailor** |
| | 1220 Jefferson Ave | Barber |
| | 328 Northampton St | Individual tenant |
| | 211 Eaton St | Umbrellas |
| 1930 | 1198 Jefferson Ave | Gustav A. Weiss meats |
| | 1200 Jefferson Ave | **Auto painter** |
| | 1204 Jefferson Ave | **Auto painter** |
| | 1210 Jefferson Ave | Individual tenant, **Reliable Furniture Works** |
| | 1212 Jefferson Ave | EJ Barry & Co. warehouse |
| | 1214 Jefferson Ave | EJ Barry & Co. warehouse |
| | 1216 Jefferson Ave | Individual tenant, D. Tran & Bingeman soft drinks, Jefferson Extract. Co. |
| | 1218 Jefferson Ave | Individual tenant, **tailor** |
| | 328 Northampton St | Vacant |
| | 211 Eaton St | Umbrellas |
| 1925 | 1210 Jefferson Ave | **Furniture repair** |
| | 1212 Jefferson Ave | Storage warehouse |
| | 1216 Jefferson Ave | Individual tenant, salesman, grocer |
| | 1218 Jefferson Ave | Individual tenant, **tailors** |
| | 1222 Jefferson Ave | Food service |
| | 328 Northampton St | Salesman |

### *5.4.4 Historical Topographic Maps*

Historical topographic maps were reviewed for additional information regarding the Site. Appendix F includes copies of the maps.

| YEAR | OBSERVATIONS |
|---|---|
| 1894-1901 | |
| Site | Site is developed with presumed former buildings. Roadways are shown and appear consistent in the vicinity of the Site from 1894 through 2013. |
| 1946-2013 | |
| Site | Due to extensive development in the area of the Site, individual structures are not shown. Roadways remain consistent with historic development. |

### *5.4.5 Municipal Records*

Records readily available at the City of Buffalo municipal offices (Assessor, Building and Fire Departments) as well as records available online from the Erie County GIS were reviewed for additional information relative to the Site. TurnKey also researched historic addresses identified for the Site through review of Sanborn maps. Note that a FOIL was submitted to the City of Buffalo as required to access their records. The following summarizes municipal records; copies of the pertinent records are included in Appendix G.

- The Site, Tax ID No.157.57-2-33 through 38, measures approximately 0.93-acres and is currently owned by 1200 Jefferson Properties LLC.
- Past owners were identified as Jeff-North Corp., Pendrick Laundry and Dry Cleaners, Inc., Pendrick Laundry Inc., Acme Glass, Rachel Maten, Jessie Jackson, Henry Landsheft, Clark Bono, Angelica Healthcare, and the City of Buffalo.
- The northern/original portion of the building at 1212 Jefferson measures 10,668 square feet and was built in 1938. The remainder of the building addressed at 1200 Jefferson was built in 1940 and measures 14,903 square feet.
- The Site is supplied with and has access to natural-gas, municipal sanitary sewer, public water and electric.
- The following records associated with environmental concerns appear to involve the Site:
    - 1921 – One-story brick addition to paint shop, a presumed former building (1204 Jefferson).
    - 1935 – Use premises for a laundry operation (1200-1204 Jefferson).
    - 1936 – Alter and repair brick laundry facility (1202-1204 Jefferson).
    - 1937 – Install 5,000-gallon fuel oil UST apparently within a one-story brick building (former public garage) under renovation for use as a laundry facility by Pendrick's Laundry Co (1204-1208 Jefferson). The tank is identified as being installed within a "clay pit" and covered with three feet of fill and concrete.
    - 1939 – A Fire Department document indicates final inspection of a 280-gallon gasoline UST installed for private use at the Pendrick Laundry facility (1202 Jefferson).
    - 1940 – Install one 550-gallon UST (1200 Jefferson). Location not identified.

- 1940 –Install one 550-gallon gasoline UST at Pendrick Laundry (1208 Jefferson). A Fire Department record indicates that this 550-gallon UST replaced a previous 280-gallon UST.
- 1945 – A Fire Department Survey Document indicates the presence of one 550-gallon gasoline UST and an associated pump unit (1202 Jefferson). An accompanying hand-drawn sketch depicts the tank and pump within a vacant lot along the south wall of a presumed former furniture storage warehouse (north of the Pendrick laundry facility).
- 1954 – Install one 550-gallon UST (1200 Jefferson). Location not identified.
- 1961 – Repair laundry and garage due to fire damage (1204 Jefferson)
- 1989 – Fire record indicates chemical spill at laundry facility (1198 Jefferson). An additional document indicates the presence of three unlabeled 55-gallon drums that were on their sides and corroding at the rear of the Pendrick Laundry facility (1198 Jefferson).
- 1993 – Remove one 550-gallon UST and one 1,000-gallon UST (1202 Jefferson). A hand-drawn sketch depicts the USTs east of the building proximate to the roof overhang area with access to the Smart Ride space.

TurnKey interviewed the City of Buffalo Assessor relative to the Site; additional information is provided below in Section 7.2.

### *5.4.6 Site History Provided by Site Contact*

According to the site contact, current tenants/operations have been present for at least the past two years.

### *5.4.7 Abstract of Title*

Abstract of Title information was not provided to TurnKey.

### *5.4.8 Previous Assessments*

No previous studies involving the Site were provided to TurnKey.

### *5.4.9 Summary of Historic Uses*

| Approximate Years | Reported or Suspected Use | Owner/Occupant |
|---|---|---|
| At least 1893 to current | Developed with former buildings from at least 1893 to prior to 2006 with commercial operations including painting/paint shop, sheet metal works, furniture repair, a tailor, a blacksmith, a sausage factory and a coal, wood and hay company.<br><br>The original portion of existing building was constructed prior to 1926 with subsequent additions. Operations within the existing building included laundry/dry cleaning from at least 1935 through at least 2010. Additional commercial operation within the existing building included automotive painting from at least 1926 through at least 1930, auto body manufacturing/fabrication in at least 1935, and a garage/automotive repair facility since at least 1950. | Historic owners/occupants included, Pendrick Laundry and Dry Cleaners, Inc., Pendrick Laundry Inc., Jeff-North Corp., Acme Glass, Rachel Maten, Jessie Jackson, Henry Landsheft, Clark Bono, Angelica Healthcare, and the City of Buffalo.<br><br>Current owner is 1200 Jefferson Properties LLC with current occupants including True Vine New Life Church (south portion of building) and Zee's Property Services Inc. |

The following summarizes the tank history of the Site and other environmental concerns as per municipal records and historic Sanborn maps:

- 1926 – One gasoline tank appears east adjacent to the Site within the Jefferson Street right-of-way.
- 1937 – Install 5,000-gallon fuel oil UST apparently within a one-story brick building (former public garage) under renovation for use as a laundry facility by Pendrick's Laundry Co (1204-1208 Jefferson). The tank is identified as being installed within a "clay pit" and covered with three feet of fill and concrete.
- 1939 – A Fire Department document indicates final inspection of a 280-gallon gasoline UST installed for private use at the Pendrick Laundry facility (1202 Jefferson).
- 1940 – Install one 550-gallon UST (1200 Jefferson). Location not identified.
- 1940 –Install one 550-gallon gasoline UST at Pendrick Laundry (1208 Jefferson). A Fire Department record indicates that this 550-gallon UST replaced a previous 280-gallon UST.
- 1945 – A Fire Department Survey Document indicates the presence of one 550-gallon gasoline UST and an associated pump unit (1202 Jefferson). An accompanying hand-

drawn sketch depicts the tank and pump within a vacant lot along the south wall of a presumed former furniture storage warehouse (north of the Pendrick laundry facility).

- 1950 – One gasoline tank appears on the eastern portion of the Site (east of the garage) and an oil AST is identified along the north interior wall of the garage.
- 1954 – Install one 550-gallon UST (1200 Jefferson). Location not identified.
- 1961 – Repair laundry and garage due to fire damage (1204 Jefferson). A former building is identified as "fire ruins" on the 1950 Sanborn map. TurnKey believes such are separate fire events/buildings.
- 1989 – Fire record indicates chemical spill at laundry facility (1198 Jefferson). An additional document indicates the presence of three unlabeled 55-gallon drums that were on their sides and corroding at the rear of the Pendrick Laundry facility (1198 Jefferson).
- 1993 – Remove one 550-gallon UST and one 1,000-gallon UST (1202 Jefferson). A hand-drawn sketch depicts the USTs east of the building proximate to the roof overhang area with access to the Smart Ride space.

Regarding adjacent properties, such have a history of automotive repair and gasoline station operations. The south adjacent property referred to as the Jefferson Avenue Apartments Site was successfully entered into the BCP due to the presence of impacted fill materials.

## 5.5 Environmental Liens

TurnKey is not aware of any formal environmental liens, enforcement action, civil, judicial or administrative enforcement cases in connection with the Site.

# 6.0 SITE RECONNAISSANCE

## 6.1 Methodology and Limiting Conditions

A visual review of the Site was completed to document Site conditions and identify potential RECs. The presence of parked vehicles, stored materials/equipment, dense vegetation and snow cover hindered observations of ground surfaces at the time of the Site reconnaissance. In addition, tenant spaces occupied by True Vine New Life Church (south portion of building) and Zee's Property Services Inc. (north portion of building) were inaccessible to TurnKey at the time of the site visit.

## 6.2 General Site Setting

Mr. Bryan Mayback of TurnKey performed the Site reconnaissance on January 22, 2018. TurnKey was accompanied by the property manager reportedly associated with the Site for approximately two years.

Appendix H includes photographs taken during the Site reconnaissance.

## 6.3 Site Visit Findings

### *6.3.1 Current On-Site Operations*

One structure is present on the Site. The structure includes four tenants/operations: a maintenance warehouse, True Vine New Life Church, Smart Ride (automotive service of cab fleet vehicles) and Zee's Property Services Inc. (operations unknown, possible storage).

### *6.3.2 Storage Tanks*

TurnKey is aware of previous USTs at the Site including at least one UST that was closed-in-place in the southern portion of the building.

TurnKey observed a suspected former UST area with newly poured concrete east of the existing building proximate to a roof overhang and overhead door associated with Smart Ride.

Two pipes protruding from the ground on both sides of the Smart Ride overhead door are suspected to be associated with a historic fence/security gate.

### *6.3.3 Hazardous or Regulated Materials*

Automotive-related fluids such as oil, antifreeze and brake fluid were noted in containers of five-gallons or less and 55-gallon drums within the automotive repair portion of Smart Ride. Black staining was noted proximate to hazardous/regulated materials, including areas proximate to a 55-gallon drum and a floor drain.

Maintenance materials such as roofing tar/aluminum, paints and thinners were noted on-Site in containers of five-gallons or less.

### *6.3.4 Solid, Hazardous or Regulated Wastes*

Waste automotive fluids including waste oil and waste antifreeze are generated on-Site at Smart Ride and such are stored in 10-gallon and 30-gallon containers. Black staining was noted to concrete ground surfaces including areas proximate to waste fluid containers and a floor drain.

General refuse generated on-Site is stored in bags/bins that are picked up regularly by the City of Buffalo.

### *6.3.5 Aboveground Lift*

An above-ground vehicle lift system is located within the automotive repair portion of Smart Ride.

### *6.3.6 Concrete Disturbances*

Concrete disturbances, likely associated with former laundry and dry cleaning equipment, were noted throughout the current maintenance warehouse. Additional interior concrete disturbances were noted proximate to overhead door; such are suspected to be associated with a sewer cleanout/floor drain system.

### *6.3.7 Fill*

Due to the urban location of the Site, as former buildings were located on current vacant land portions of the Site, there is the potential for fill materials from unknown origins at the Site.

#### *6.3.8 Suspected Former Building Foundation*

Concrete exposed on vacant land north of the existing building is suspected to be associated with a former building foundation.

#### *6.3.9 Staining/Spillage and Pools of Liquid*

Black staining was noted throughout the automotive repair portion of Smart Ride, including areas proximate to floor drains.

#### *6.3.10 Miscellaneous Debris*

Miscellaneous debris including waste vehicle tires, televisions, etc. was noted on exterior portions of the Site.

#### *6.3.11 Stressed and/or Dead Vegetation*

None observed.

#### *6.3.12 Odors*

None noted.

#### *6.3.13 Unidentified Substance Containers*

None observed.

#### *6.3.14 Heating/Cooling*

Natural-gas fired ceiling-mounted units are currently used on-Site.

#### *6.3.15 Wastewaters*

The Site is currently connected to the municipal sanitary sewer system.

#### *6.3.16 Potable Water Supply/Wells*

The Site is serviced by the municipal water supply.

### *6.3.17 Drains and Sumps*

Three floor drains were noted within the automotive repair portion of the building. TurnKey noted the presence of black staining and a sheen on liquid within the western-most floor drain. While the drain system likely discharges into the municipal sanitary sewer system, the integrity of the system is unknown.

A circular disturbance west of the building may have been a former storm drain location; however, this could not be confirmed.

No sumps were observed within the building.

### *6.3.18 Air Emissions*

An inactive brick vent stack, possibly for an incinerator, was noted off the west wall of the building. The vent stack appeared to have been sealed shut from within the building.

### *6.3.19 Pits, Ponds and Lagoons*

None observed.

### *6.3.20 Septic System*

None observed.

### *6.3.21 PCBs*

Electronic equipment/wastes such as light ballasts could contain PCBs. In addition, three utility-owned pole-mounted transformers were noted south of the building. One additional utility-owned pole-mounted was observed along the western property line.

### *6.3.22 Previous Intrusive Work*

Evidence of four geotechnical borings was observed in areas around the perimeter of the existing building.

As previously indicated, TurnKey is aware of previous tank removal activities at the Site.

#### *6.3.23 Adjacent Property Use*

Adjacent properties are currently used residentially and commercially. East adjacent operations currently include automotive repair. In addition, the south adjacent property is a current BCP Site (Jefferson Avenue Apartments Site) due to the presence of impacted fill materials.

## 6.4 Summary of Site Reconnaissance Potential Concerns

The following potential environmental concerns were identified at the time of the Site reconnaissance:

- On-Site operations include fleet vehicle repair with storage and use of hazardous/regulated materials in 55-gallon drums and containers of five-gallons or less. In addition, hazardous/regulated wastes such as waste oil and waste antifreeze are generated from automotive repair and such are stored in 10-gallon and 30-gallon containers.
- Black staining was noted to concrete ground surfaces throughout the automotive repair portion of the building, including areas proximate to floor drains. Black staining and a sheen was noted on liquid within the western-most floor drain within the automotive repair area. The integrity of the drain system is unknown.
- TurnKey is aware of previous USTs at the Site including at least one UST that was reportedly closed-in-place in the southern portion of the building. TurnKey observed a suspected former UST area with newly poured concrete east of the existing building proximate to a roof overhang and overhead door associated with Smart Ride.
- Concrete disturbances, likely associated with former laundry and dry cleaning equipment, were noted throughout the current maintenance warehouse. Additional interior concrete disturbances were noted proximate to overhead door; such are suspected by TurnKey to be associated with a sewer cleanout/floor drain system.
- Concrete exposed on vacant land north of the existing building is suspected to be associated with a former building foundation.
- A circular disturbance west of the building may have been a former storm drain location; however, this could not be confirmed.
- An inactive brick vent stack, possibly for an incinerator, was noted off the west wall of the building. The vent stack appeared to have been sealed shut from within the building. There is the potential for remaining ash materials within the stack.
- Electronic equipment/wastes such as light ballasts could contain PCBs.

- Miscellaneous debris including waste vehicle tires, televisions, etc. was noted on exterior portions of the Site.
- Due to the urban location of the Site, especially as former buildings were located on current vacant land portions of the Site, there is the potential for fill materials from unknown origins at the Site.
- East adjacent operations currently include automotive repair. In addition, the south adjacent property is a current BCP Site (Jefferson Avenue Apartments Site).

# 7.0 INTERVIEWS

## 7.1 Site Owner

An Environmental Questionnaire requesting information on any known environmental hazards or impacts at the Site was completed by Mr. Matt Connors. Appendix I includes the completed questionnaire. The following summarizes the information provided by Mr. Connors:

- The Site is currently used for storage/warehousing, a taxi service operation and a church.
- The intended use of the Site is storage and light manufacturing.
- Mr. Connors is unaware of any pending, threatened or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site. Further, Mr. Connors is unaware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products related to the Site.

## 7.2 Municipal Interview

TurnKey interviewed the City of Buffalo Assessor, Jeremy Martz, on January 16, 2018 for additional information relative to the Site. Although Mr. Martz has limited knowledge of the Site, he indicated that he believes an existing UST remains on-site. TurnKey suspects the Mr. Martz may be referring to the closed-in-place No. 6 fuel oil UST.

## 7.3 Former Site Owner/Operator

Former owners/operators were not interviewed as part of this assessment.

# 8.0 OTHER ENVIRONMENTAL CONSIDERATIONS

Other environmental considerations are discussed below. Such include non-scope considerations, described under ASTM E1527-13 as ancillary conditions that are typically outside the standard Phase I scope of practice. Non-scope considerations, such as asbestos, lead, radon, wetlands and mold, are not considered RECs under ASTM E1527-13, but may represent health or environmental issues impacting the Site and/or property value.

## 8.1 Asbestos

Based on the age of the existing building, the potential for asbestos exists. Suspect ACMs including, but not limited to, drywall/plaster, pipe wrap, floor tiles and ceiling tiles were noted at the time of the site visit. Asbestos could also be present in roofing materials. No significantly damaged materials were observed at the time of the site visit.

## 8.2 Lead Paint, Pipes and Soldering

Based on the age of the existing building, the potential for lead-based paint exists. No peeling/chipping paint was observed at the time of the site reconnaissance.

## 8.3 Radon

Research in the area of the Site completed by the New York State Department of Health - Bureau of Environmental Radiation Protection (Radon) suggests an average basement radon concentration of 1.14 pCi/L in the area of the Site, which is below the USEPA action level of 4.0 pCi/L. As such, radon is not anticipated to be a concern.

## 8.4 Wetlands and Flood Zones

The EDR regulatory database includes general information on wetlands and flood zones. No wetland or flood zone areas were identified on-site or adjacent to the Site.

## 8.5 Microbial Contamination (Mold)

No visual evidence of mold was noted at the time of the Site reconnaissance.

## 8.6 Vapor Encroachment Conditions

This assessment included review of the regulatory database discussed in Section 6.1 in relation to the ASTM E2600-10 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions.

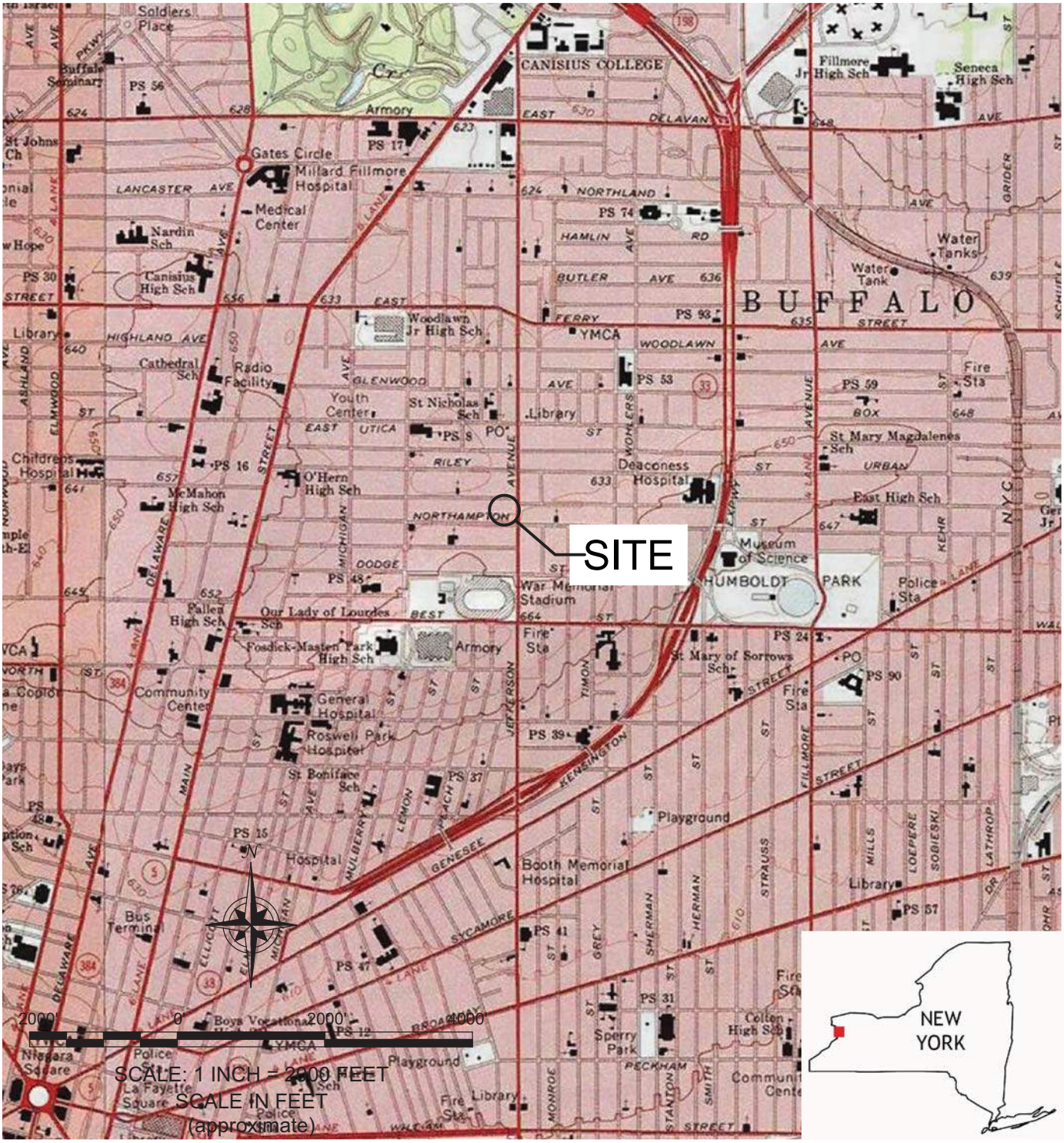
If soil or groundwater is contaminated with a volatile compound such as gasoline or solvents, that contaminant can migrate through the soil pore space and end up in the air inside of buildings, especially within basement areas. Soil vapors do not necessarily migrate along groundwater flow paths; they can also move up hydraulic gradients and can extend beyond a groundwater plume. The ASTM standard named this a VEC, which is a more recent environmental concern and there have been a significant number of sites where vapor intrusion has been discovered. The state and federal environmental regulators have "reopened" numerous spill and waste sites in order to assess whether vapor encroachment is a concern.

Historic laundry/dry cleaning operations at the Site are considered a potential VEC. Additional on-Site operations such as painting and automotive repair are also considered a potential VEC due to the reasonably anticipated use of hazardous/regulated materials.

# FIGURES

F:\CAD\TurnKey\Sinatra\1200 Jefferson\Figure 1 - Site Location and Vicinity Map.dwg

# FIGURE 1





TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635


## SITE LOCATION AND VICINITY MAP

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1200 JEFFERSON AVENUE AND ASSOCIATED PARCELS

BUFFALO, NEW YORK

PREPARED FOR

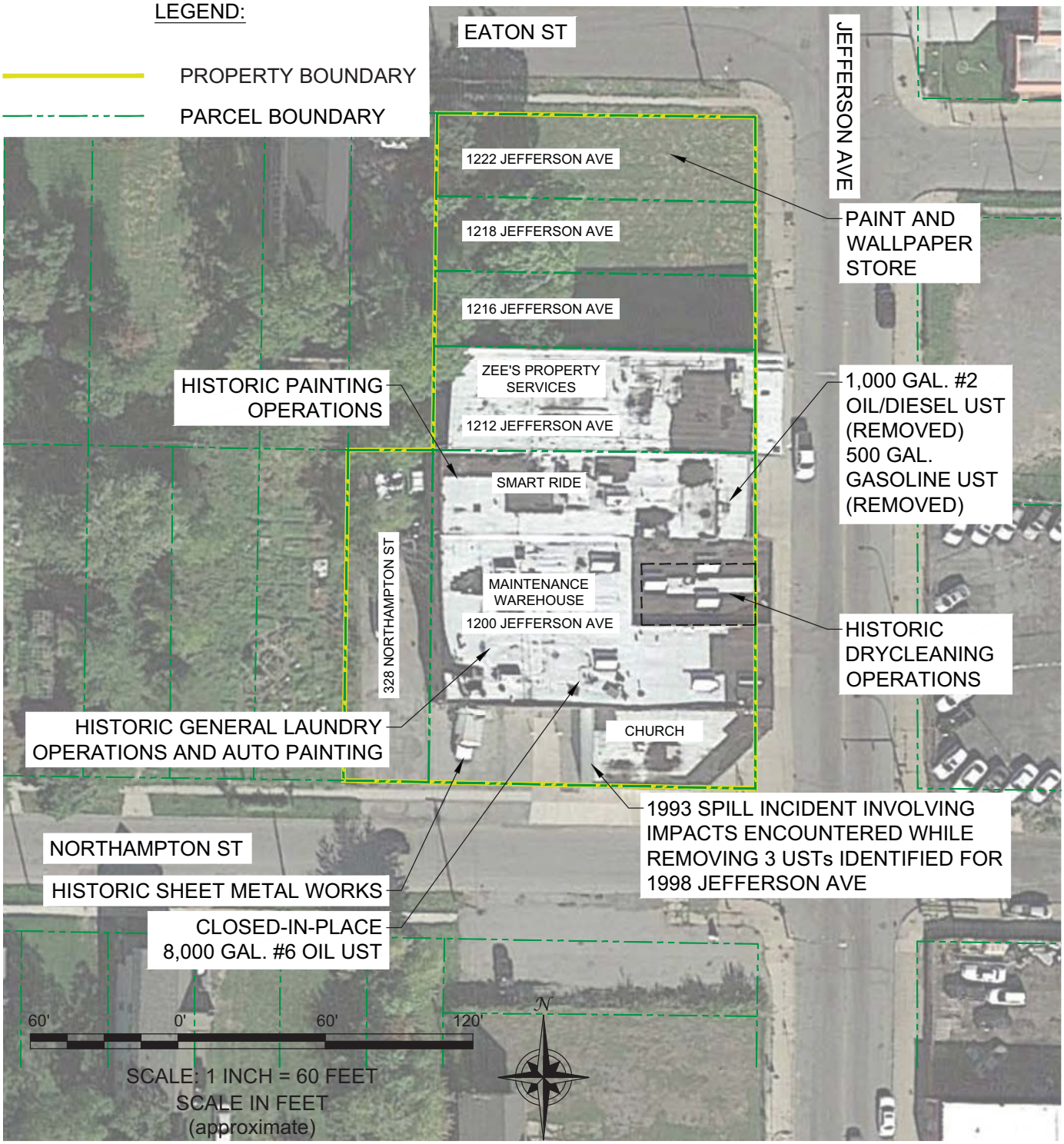
SINATRA & COMPANY REALTY

| | |
|---|---|
| PROJECT NO.: | 0239-018-001 |
| DATE: | JANUARY 2018 |
| DRAFTED BY: | CMS |


*DISCLAIMER:*
*PROPERTY OF TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF TURNKEY ENVIRONMENTAL RESTORATION, LLC.*

F:\CAD\TurnKey\Sinatra\1200 Jefferson\Figure 2 - Site Plan (Aerial).dwg

# FIGURE 2





TurnKey Environmental Restoration, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635


## SITE PLAN (AERIAL)

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1200 JEFFERSON AVENUE AND ASSOCIATED PARCELS

BUFFALO, NEW YORK

PREPARED FOR

SINATRA & COMPANY REALTY

| | |
|---|---|
| PROJECT NO.: | 0239-018-001 |
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# APPENDIX A

## ENVIRONMENTAL DATABASE REPORT

**Commercial Property**
1200-1222 Jefferson Avenue and 328 Northampton
BUFFALO, NY 14208

Inquiry Number: 5168089.2s
February 01, 2018

# The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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| Government Records Searched/Data Currency Tracking | GR-1 |

**GEOCHECK ADDENDUM**

**GeoCheck - Not Requested**


***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

1200-1222 JEFFERSON AVENUE AND 328 NORTHAMPTON
BUFFALO, NY 14208

### COORDINATES

| | |
|---|---|
| Latitude (North): | 42.9077300 - 42˚ 54' 27.82'' |
| Longitude (West): | 78.8543540 - 78˚ 51' 15.67'' |
| Universal Tranverse Mercator: | Zone 17 |
| UTM X (Meters): | 675157.5 |
| UTM Y (Meters): | 4752587.0 |
| Elevation: | 640 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 5937939 BUFFALO NE, NY |
| Version Date: | 2013 |
| Northwest Map: | 5938774 BUFFALO NW, NY |
| Version Date: | 2013 |

### AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Portions of Photo from: | 20150528, 20150529 |
| Source: | USDA |

# MAPPED SITES SUMMARY

Target Property Address:
1200-1222 JEFFERSON AVENUE AND 328 NORTHAMPTON
BUFFALO, NY 14208

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | PENDRICK LAUNDRY | 1198 JEFFERSON AVENU | DRYCLEANERS | | TP |
| A2 | PENDRICK LAUNDRY | 1198 JEFFERSON AVE | RCRA NonGen / NLR, FINDS, ECHO, MANIFEST | | TP |
| A3 | | 1198 JEFFERSON AVE | ERNS | | TP |
| A4 | PENDRICK LAUNDRY INC | 1198 JEFFERSON AVE | EDR Hist Cleaner | | TP |
| A5 | ANGELICA TEXTILE SER | 1198 JEFFERSON AVE. | LTANKS, CBS, CBS AST, NY Spills | | TP |
| A6 | PENDRICK LAUNDRY INC | 1200 JEFFERSON AVE | RCRA NonGen / NLR, FINDS, ECHO | | TP |
| A7 | PENDRICK LAUNDRY INC | 1202 JEFFERSON AVE | EDR Hist Cleaner | | TP |
| A8 | NYNEX | JEFFERSON & NORTHAMP | NY Spills | Higher | 45, 0.009, SE |
| A9 | ABANDONED DRUMS OF P | JEFFERSON & NORTHAMP | NY Spills | Higher | 45, 0.009, SE |
| A10 | SIMON PHILI D GARAGE | 1209 JEFFERSON AVE | EDR Hist Auto | Lower | 81, 0.015, NE |
| A11 | SHEPARD SIDNEY E | 1195 JEFFERSON AVE | EDR Hist Auto | Higher | 81, 0.015, East |
| A12 | PACIFIC OUTO SERVICE | 1199 JEFFERSON AVE | EDR Hist Auto | Higher | 81, 0.015, ENE |
| B13 | BUSS ROBT H AUTO REP | 212 EATON ST | EDR Hist Auto | Lower | 89, 0.017, NNW |
| C14 | FIRE HOUSE ENGINE 21 | 1223 JEFFERSON AVE | NY Spills | Lower | 125, 0.024, NNE |
| A15 | HALL SERV STA GAS ST | 1187 JEFFERSON AVE | EDR Hist Auto | Higher | 132, 0.025, SE |
| B16 | TSCHOPP LEO A CLO CL | 1229 JEFFERSON AVE | EDR Hist Cleaner | Lower | 141, 0.027, NNE |
| B17 | ENGINE 21 | 1229 JEFFERSON | UST | Lower | 141, 0.027, NNE |
| A18 | JEFFERSON STREET DRU | INTERSECT. OF JEFFER | SEMS-ARCHIVE, RCRA NonGen / NLR, MANIFEST | Higher | 146, 0.028, SSE |
| A19 | FOUR HOUR DRY CLNRS | 1185 JEFFERSON AVE | EDR Hist Cleaner | Higher | 153, 0.029, SE |
| B20 | CONROY JOHN B SEWING | 1246 JEFFERSON AVE | EDR Hist Auto | Lower | 243, 0.046, North |
| D21 | BANKS AUTOMOTIVE SER | 1165 JEFFERSON AVE | EDR Hist Auto | Higher | 245, 0.046, SSE |
| D22 | TANK IN RIGHT OF WAY | 1165 JEFFERSON AVENU | NY Spills | Higher | 245, 0.046, SSE |
| C23 | LEE WINLZ LNDV | 1247 JEFFERSON AVE | EDR Hist Cleaner | Lower | 276, 0.052, NNE |
| D24 | WASTE OIL DUMPING | 371 NORTHAMPTON | NY Spills | Higher | 281, 0.053, ESE |
| D25 | BROWNIES NORTHAMPTON | 371 NORTHAMPTON ST | EDR Hist Auto | Higher | 281, 0.053, ESE |
| E26 | WILLSEY LAUNDRY INC | 300 NORTHAMPTON PHO | EDR Hist Cleaner | Lower | 314, 0.059, West |
| E27 | BUFFALO INDUSTRIAL | 300 NORTHAMPTON AVEN | NY Spills | Lower | 314, 0.059, West |
| F28 | DREWS JOHN J SERVICE | 1256 JEFFERSON AVE | EDR Hist Auto | Lower | 316, 0.060, North |
| D29 | KAR BAKE CORP AUTO R | 1159 JEFFERSON AVE | EDR Hist Auto | Higher | 340, 0.064, SSE |
| F30 | SCHROEDER JOHN F AUT | 349 RILEY ST | EDR Hist Auto | Lower | 352, 0.067, North |
| D31 | JEFFERSON AVENUE APA | 1140 & 1162 JEFFERSO | BROWNFIELDS | Higher | 386, 0.073, South |
| D32 | MERGLER THEO F REPR | 1152 JEFFERSON AVE | EDR Hist Auto | Higher | 427, 0.081, South |
| D33 | MEEKS AUTO REPAIR | 1145 JEFFERSON AVE | EDR Hist Auto | Higher | 484, 0.092, SSE |
| F34 | PERRYS THREE HOUR CL | 1271 JEFFERSON AVE | EDR Hist Cleaner | Lower | 508, 0.096, NNE |
| 35 | GAS COMPANY | 153 EATON ST | NY Spills | Lower | 517, 0.098, WNW |
| G36 | HARPERS AUTO SERVICE | 1137 JEFFERSON AVE | EDR Hist Auto | Higher | 535, 0.101, SSE |
| F37 | COIN OPERATED LAUNDR | 1275 JEFFERSON AVE | EDR Hist Cleaner | Lower | 544, 0.103, NNE |
| F38 | LEONS SUNOCO | 1270 JEFFERSON AVE | LTANKS, UST, NY Spills | Lower | 545, 0.103, North |
| F39 | LEONS SUNOCO | 1270 JEFFERSON AV | EDR Hist Auto | Lower | 545, 0.103, North |

## MAPPED SITES SUMMARY

Target Property Address:
1200-1222 JEFFERSON AVENUE AND 328 NORTHAMPTON
BUFFALO, NY 14208

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| F40 | SUNOCO SERVICE STATI | 1270 JEFFERSON AVE | RCRA NonGen / NLR, FINDS, ECHO | Lower | 545, 0.103, North |
| 41 | JONES S E & SON GARA | 46 KINGSLEY ST | EDR Hist Auto | Lower | 558, 0.106, ENE |
| G42 | DEMO PROJECT | 1132 JEFFERSON AVE | NY Spills | Higher | 570, 0.108, South |
| G43 | EMPTY COMMERCIAL BUI | 1132 JEFFERSON AVE | NY Spills | Higher | 570, 0.108, South |
| 44 | NICHTER NORBERT F GA | 29 GERHARDT ST | EDR Hist Auto | Higher | 576, 0.109, SE |
| H45 | COIN OPERATED LAUNDR | 1276 JEFFERSON AVE | EDR Hist Cleaner | Lower | 614, 0.116, North |
| H46 | GRENIER HECTOR AUTO | 1276 JEFFERSON AVE | EDR Hist Auto | Lower | 614, 0.116, North |
| G47 | THUMANS GARAGE | 1131 JEFFERSON AVENU | LTANKS, NY Spills | Higher | 639, 0.121, SSE |
| G48 | GILLEN & ROHM FILLIN | 1131 JEFFERSON AVE | EDR Hist Auto | Higher | 639, 0.121, SSE |
| G49 | THUMANS GARAGE INC | 1131 JEFFERSON AVE | RCRA-CESQG, FINDS, ECHO, MANIFEST | Higher | 639, 0.121, SSE |
| 50 | KNIGHT SHELDON G AUT | 378 RILEY ST | EDR Hist Auto | Lower | 653, 0.124, NE |
| G51 | BUFFALO ENTERPRISE D | 1117 JEFFERSON AVE & | RCRA NonGen / NLR, FINDS, ECHO | Higher | 701, 0.133, SSE |
| G52 | BEDC | 1117 JEFFERSON AVENU | LTANKS | Higher | 767, 0.145, South |
| 53 | DIARSENOL COMPANY | 84 KINGSLEY STREET | SEMS-ARCHIVE, SHWS, ENG CONTROLS, INST CONTROL,... | Higher | 788, 0.149, ENE |
| 54 | BUFFALO CITY OF - WA | 295 DODGE ST | RCRA NonGen / NLR, FINDS, ECHO, MANIFEST | Higher | 883, 0.167, SW |
| 55 | FAMILY DOLLAR #1551 | 1307 JEFERSON AVE | RCRA-CESQG | Lower | 949, 0.180, North |
| I56 | STAN MAKOWSKI ECC NO | 1095 JEFFERSON AVE. | UST | Higher | 1186, 0.225, South |
| I57 | BUFFALO BOARD OF EDU | 1095 JEFFERSON AT BE | LTANKS | Higher | 1186, 0.225, South |
| 58 | MASTEN SERVICE INC | 247 MASTEN AVE | LTANKS, UST, NY Spills | Higher | 1324, 0.251, WNW |
| 59 | FORMER SCHOOL/COMM C | 25 VERPLANK ST AT UT | LTANKS | Lower | 1341, 0.254, NNW |
| 60 | BUFFALO NIPPLE AND M | 335 GLENWOOD AVENUE | ERP | Lower | 1480, 0.280, NNE |
| 61 | BUFFALO SCHOOL #53 | 3291 ROEHER AVENUE | LTANKS | Lower | 2006, 0.380, NE |
| 62 | ST MARTINS VILLAGE L | 564 DODGE ST | LTANKS, NY Spills | Higher | 2026, 0.384, ESE |
| 63 | MASTEN AVENUE ARMORY | 27 MASTEN AVENUE | LTANKS, NY Spills | Higher | 2050, 0.388, SW |
| 64 | ABANDONED AUTO REPAI | 63 E. UTICA | LTANKS | Lower | 2553, 0.484, WNW |
| 65 | OSMOSE WOOD PRESERVI | 980 ELLICOTT STREET | SHWS | Lower | 3209, 0.608, WSW |
| 66 | 1542 MAIN STREET | 1542 MAIN STREET | SHWS | Lower | 3825, 0.724, NW |
| 67 | BUFLOVAK CO. | 1543 FILLMORE AVE. | FUSRAP | Lower | 4877, 0.924, NE |

# EXECUTIVE SUMMARY

**TARGET PROPERTY SEARCH RESULTS**

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| PENDRICK LAUNDRY<br>1198 JEFFERSON AVENU<br>BUFFALO, NY 14208 | DRYCLEANERS<br>Facility Id: 9-1402-00691 | N/A |
| PENDRICK LAUNDRY<br>1198 JEFFERSON AVE<br>BUFFALO, NY 14208 | RCRA NonGen / NLR<br>EPA ID:: NYD013755459<br>FINDS<br>Registry ID:: 110004350345<br>ECHO<br>Registry ID: 110004350345<br>MANIFEST<br>EPA ID: NYD013755459 | NYD013755459 |
| 1198 JEFFERSON AVE<br>1198 JEFFERSON AVE<br>BUFFALO, NY | ERNS | N/A |
| PENDRICK LAUNDRY INC<br>1198 JEFFERSON AVE<br>BUFFALO, NY | EDR Hist Cleaner | N/A |
| ANGELICA TEXTILE SER<br>1198 JEFFERSON AVE.<br>BUFFALO, NY 14208 | LTANKS<br>Date Closed: 1994-01-28<br>Site ID: 228221<br>Program Number: 9305238<br>CBS<br>Facility Status: Unregulated/Closed<br>CBS Number: 9-000157<br>CBS AST<br>Facility Status: 2<br>Facility Status: 1<br>CBS Number: 9-000157<br>NY Spills<br>Date Closed: 1989-09-23<br>Date Closed: 1995-05-30<br>Spill Number: 8902796<br>Spill Number: 9501902<br>Site ID: 63486<br>Site ID: 228222 | N/A |
| PENDRICK LAUNDRY INC<br>1200 JEFFERSON AVE<br>BUFFALO, NY 14208 | RCRA NonGen / NLR | NYD987036985 |

# EXECUTIVE SUMMARY

EPA ID:: NYD987036985

FINDS
Registry ID:: 110004506455

ECHO
Registry ID: 110004506455

PENDRICK LAUNDRY INC
1202 JEFFERSON AVE
BUFFALO, NY

EDR Hist Cleaner N/A

**DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

***Federal Delisted NPL site list***

Delisted NPL ---------- National Priority List Deletions

***Federal CERCLIS list***

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

***Federal RCRA CORRACTS facilities list***

CORRACTS ---------- Corrective Action Report

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

***Federal RCRA generators list***

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators

***Federal institutional controls / engineering controls registries***

LUCIS ---------- Land Use Control Information System

US ENG CONTROLS Engineering Controls Sites List
US INST CONTROL Sites with Institutional Controls

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF Facility Register

***State and tribal leaking storage tank lists***

INDIAN LUST Leaking Underground Storage Tanks on Indian Land
HIST LTANKS Listing of Leaking Storage Tanks

***State and tribal registered storage tank lists***

FEMA UST Underground Storage Tank Listing
CBS UST Chemical Bulk Storage Database
MOSF UST Major Oil Storage Facilities Database
MOSF Major Oil Storage Facility Site Listing
AST Petroleum Bulk Storage
MOSF AST Major Oil Storage Facilities Database
INDIAN UST Underground Storage Tanks on Indian Land
TANKS Storage Tank Faciliy Listing

***State and tribal institutional control / engineering control registries***

RES DECL Restrictive Declarations Listing

***State and tribal voluntary cleanup sites***

VCP Voluntary Cleanup Agreements
INDIAN VCP Voluntary Cleanup Priority Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS A Listing of Brownfields Sites

***Local Lists of Landfill / Solid Waste Disposal Sites***

SWTIRE Registered Waste Tire Storage & Facility List
SWRCY Registered Recycling Facility List
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory
IHS OPEN DUMPS Open Dumps on Indian Land

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL Delisted National Clandestine Laboratory Register
DEL SHWS Delisted Registry Sites
US CDL National Clandestine Laboratory Register

***Local Lists of Registered Storage Tanks***

HIST UST Historical Petroleum Bulk Storage Database

HIST AST ---- Historical Petroleum Bulk Storage Database

***Local Land Records***

LIENS ---- Spill Liens Information
LIENS 2 ---- CERCLA Lien Information

***Records of Emergency Release Reports***

HMIRS ---- Hazardous Materials Information Reporting System
NY Hist Spills ---- SPILLS Database
SPILLS 90 ---- SPILLS 90 data from FirstSearch
SPILLS 80 ---- SPILLS 80 data from FirstSearch

***Other Ascertainable Records***

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
UXO ---- Unexploded Ordnance Sites
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
AIRS ---- Air Emissions Data
COAL ASH ---- Coal Ash Disposal Site Listing
E DESIGNATION ---- E DESIGNATION SITE LISTING
Financial Assurance ---- Financial Assurance Information Listing
HSWDS ---- Hazardous Substance Waste Disposal Site Inventory

SPDES State Pollutant Discharge Elimination System
VAPOR REOPENED Vapor Intrusion Legacy Site List
UIC Underground Injection Control Wells

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP EDR Proprietary Manufactured Gas Plants

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA HWS Recovered Government Archive State Hazardous Waste Facilities List
RGA LF Recovered Government Archive Solid Waste Facilities List

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 12/11/2017 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***JEFFERSON STREET DRU*** | ***INTERSECT. OF JEFFER*** | ***SSE 0 - 1/8 (0.028 mi.)*** | ***A18*** | ***26*** |
| ***DIARSENOL COMPANY*** | ***84 KINGSLEY STREET*** | ***ENE 1/8 - 1/4 (0.149 mi.)*** | ***53*** | ***78*** |

***Federal RCRA generators list***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 09/13/2017 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***THUMANS GARAGE INC*** | ***1131 JEFFERSON AVE*** | ***SSE 0 - 1/8 (0.121 mi.)*** | ***G49*** | ***70*** |
| **Lower Elevation** | **Address** | **Direction / Distance** | **Map ID** | **Page** |
| FAMILY DOLLAR #1551 | 1307 JEFERSON AVE | N 1/8 - 1/4 (0.180 mi.) | 55 | 93 |

***State- and tribal - equivalent CERCLIS***

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, and dated 08/15/2017 has revealed that there are 3 SHWS sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DIARSENOL COMPANY*** | ***84 KINGSLEY STREET*** | ***ENE 1/8 - 1/4 (0.149 mi.)*** | ***53*** | ***78*** |
| Site Code: 56621 | | | | |
| Class Code: Site is properly closed - requires continued management. | | | | |
| **Lower Elevation** | **Address** | **Direction / Distance** | **Map ID** | **Page** |
| OSMOSE WOOD PRESERVI | 980 ELLICOTT STREET | WSW 1/2 - 1 (0.608 mi.) | 65 | 119 |
| Site Code: 56635 | | | | |
| Class Code: Site is properly closed - requires continued management. | | | | |
| 1542 MAIN STREET | 1542 MAIN STREET | NW 1/2 - 1 (0.724 mi.) | 66 | 121 |
| Site Code: 482356 | | | | |

***State and tribal leaking storage tank lists***

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 10/31/2017 has revealed that there are 10

# EXECUTIVE SUMMARY

LTANKS sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***THUMANS GARAGE***<br>Date Closed: 1991-07-24<br>Site ID: 307011<br>Program Number: 9104101 | ***1131 JEFFERSON AVENU*** | ***SSE 0 - 1/8 (0.121 mi.)*** | ***G47*** | ***66*** |
| BEDC<br>Date Closed: 1992-06-24<br>Site ID: 92606<br>Program Number: 9012111 | 1117 JEFFERSON AVENU | S 1/8 - 1/4 (0.145 mi.) | G52 | 76 |
| BUFFALO BOARD OF EDU<br>Date Closed: 1996-04-25<br>Site ID: 279603<br>Program Number: 9408233 | 1095 JEFFERSON AT BE | S 1/8 - 1/4 (0.225 mi.) | I57 | 98 |
| ***MASTEN SERVICE INC***<br>Date Closed: 1996-05-03<br>Site ID: 205526<br>Program Number: 9601741 | ***247 MASTEN AVE*** | ***WNW 1/4 - 1/2 (0.251 mi.)*** | ***58*** | ***100*** |
| ***ST MARTINS VILLAGE L***<br>Date Closed: 1995-12-20<br>Site ID: 280332<br>Program Number: 9509662 | ***564 DODGE ST*** | ***ESE 1/4 - 1/2 (0.384 mi.)*** | ***62*** | ***109*** |
| ***MASTEN AVENUE ARMORY***<br>Date Closed: 1998-03-30<br>Date Closed: 1990-11-14<br>Date Closed: 1993-08-27<br>Site ID: 106039<br>Site ID: 219352<br>Site ID: 219353<br>Program Number: 9709636<br>Program Number: 8904853<br>Program Number: 9305872 | ***27 MASTEN AVENUE*** | ***SW 1/4 - 1/2 (0.388 mi.)*** | ***63*** | ***112*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***LEONS SUNOCO***<br>Date Closed: 1988-06-16<br>Date Closed: 2007-05-30<br>Site ID: 67998<br>Site ID: 67999<br>Program Number: 8709895<br>Program Number: 9201141 | ***1270 JEFFERSON AVE*** | ***N 0 - 1/8 (0.103 mi.)*** | ***F38*** | ***42*** |
| FORMER SCHOOL/COMM C<br>Date Closed: 1998-05-08<br>Site ID: 85756<br>Program Number: 9709192 | 25 VERPLANK ST AT UT | NNW 1/4 - 1/2 (0.254 mi.) | 59 | 106 |
| BUFFALO SCHOOL #53<br>Date Closed: 1991-09-18<br>Site ID: 328680<br>Program Number: 9100284 | 3291 ROEHER AVENUE | NE 1/4 - 1/2 (0.380 mi.) | 61 | 108 |
| ABANDONED AUTO REPAI | 63 E. UTICA | WNW 1/4 - 1/2 (0.484 mi.) | 64 | 118 |

Date Closed: 2002-10-03
Site ID: 308975
Program Number: 0175489

***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| STAN MAKOWSKI ECC NO | 1095 JEFFERSON AVE. | S 1/8 - 1/4 (0.225 mi.) | I56 | 95 |
| Database: UST, Date of Government Version: 12/22/2017 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ENGINE 21 | 1229 JEFFERSON | NNE 0 - 1/8 (0.027 mi.) | B17 | 24 |
| Database: UST, Date of Government Version: 12/22/2017 | | | | |
| ***LEONS SUNOCO*** | ***1270 JEFFERSON AVE*** | ***N 0 - 1/8 (0.103 mi.)*** | ***F38*** | ***42*** |
| Database: UST, Date of Government Version: 12/22/2017 | | | | |

***State and tribal institutional control / engineering control registries***

ENG CONTROLS: Environmental Remediation sites that have engineering controls in place.

A review of the ENG CONTROLS list, as provided by EDR, and dated 08/15/2017 has revealed that there is 1 ENG CONTROLS site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DIARSENOL COMPANY*** | ***84 KINGSLEY STREET*** | ***ENE 1/8 - 1/4 (0.149 mi.)*** | ***53*** | ***78*** |
| Site Code: 56621 | | | | |

INST CONTROL: Environmental Remediation sites that have institutional controls in place.

A review of the INST CONTROL list, as provided by EDR, and dated 08/15/2017 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DIARSENOL COMPANY*** | ***84 KINGSLEY STREET*** | ***ENE 1/8 - 1/4 (0.149 mi.)*** | ***53*** | ***78*** |
| Site Code: 56621 | | | | |

***State and tribal Brownfields sites***

BROWNFIELDS: Brownfields Site List

A review of the BROWNFIELDS list, as provided by EDR, and dated 08/15/2017 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| JEFFERSON AVENUE APA<br>Site Code: 543314 | 1140 & 1162 JEFFERSO | S 0 - 1/8 (0.073 mi.) | D31 | 36 |

ERP: In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

A review of the ERP list, as provided by EDR, and dated 08/15/2017 has revealed that there is 1 ERP site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BUFFALO NIPPLE AND M<br>Site Code: 58465 | 335 GLENWOOD AVENUE | NNE 1/4 - 1/2 (0.280 mi.) | 60 | 107 |

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Records of Emergency Release Reports***

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 10/31/2017 has revealed that there are 11 NY Spills sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| NYNEX<br>Date Closed: 1996-11-18<br>Spill Number: 9601909<br>Site ID: 191173 | JEFFERSON & NORTHAMP | SE 0 - 1/8 (0.009 mi.) | A8 | 19 |
| ABANDONED DRUMS OF P<br>Date Closed: 1995-01-31<br>Spill Number: 9413833<br>Site ID: 191172 | JEFFERSON & NORTHAMP | SE 0 - 1/8 (0.009 mi.) | A9 | 20 |
| TANK IN RIGHT OF WAY | 1165 JEFFERSON AVENU | SSE 0 - 1/8 (0.046 mi.) | D22 | 30 |

| | | | | |
|---|---|---|---|---|
| Date Closed: 1993-04-16<br>Spill Number: 9012032<br>Site ID: 240828 | | | | |
| WASTE OIL DUMPING<br>Date Closed: 1994-05-06<br>Date Closed: 1994-05-04<br>Spill Number: 9401612<br>Spill Number: 9401615<br>Site ID: 256191<br>Site ID: 256192 | 371 NORTHAMPTON | ESE 0 - 1/8 (0.053 mi.) | D24 | 31 |
| DEMO PROJECT<br>Date Closed: 2013-07-31<br>Spill Number: 1304734<br>Site ID: 485270 | 1132 JEFFERSON AVE | S 0 - 1/8 (0.108 mi.) | G42 | 63 |
| EMPTY COMMERCIAL BUI<br>Date Closed: 2013-08-22<br>Spill Number: 1304558<br>Site ID: 485087 | 1132 JEFFERSON AVE | S 0 - 1/8 (0.108 mi.) | G43 | 64 |
| ***THUMANS GARAGE***<br>Date Closed: 2010-05-05<br>Spill Number: 0912370<br>Site ID: 425256 | ***1131 JEFFERSON AVENU*** | ***SSE 0 - 1/8 (0.121 mi.)*** | ***G47*** | ***66*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| FIRE HOUSE ENGINE 21<br>Date Closed: 2005-08-23<br>Spill Number: 0506213<br>Site ID: 351386 | 1223 JEFFERSON AVE | NNE 0 - 1/8 (0.024 mi.) | C14 | 22 |
| BUFFALO INDUSTRIAL<br>Date Closed: 1996-01-27<br>Spill Number: 9513812<br>Site ID: 310654 | 300 NORTHAMPTON AVEN | W 0 - 1/8 (0.059 mi.) | E27 | 34 |
| GAS COMPANY<br>Date Closed: 2007-05-24<br>Date Closed: 2008-04-21<br>Spill Number: 0702174<br>Spill Number: 0800797<br>Site ID: 381846<br>Site ID: 396611 | 153 EATON ST | WNW 0 - 1/8 (0.098 mi.) | 35 | 39 |
| ***LEONS SUNOCO***<br>Date Closed: 1995-06-01<br>Spill Number: 9502661<br>Site ID: 68000 | ***1270 JEFFERSON AVE*** | ***N 0 - 1/8 (0.103 mi.)*** | ***F38*** | ***42*** |

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA)

of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2017 has revealed that there are 5 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***JEFFERSON STREET DRU*** | ***INTERSECT. OF JEFFER*** | ***SSE 0 - 1/8 (0.028 mi.)*** | ***A18*** | ***26*** |
| ***BUFFALO ENTERPRISE D*** | ***1117 JEFFERSON AVE &*** | ***SSE 1/8 - 1/4 (0.133 mi.)*** | ***G51*** | ***74*** |
| ***DIARSENOL COMPANY*** | ***84 KINGSLEY STREET*** | ***ENE 1/8 - 1/4 (0.149 mi.)*** | ***53*** | ***78*** |
| ***BUFFALO CITY OF - WA*** | ***295 DODGE ST*** | ***SW 1/8 - 1/4 (0.167 mi.)*** | ***54*** | ***90*** |
| **Lower Elevation** | **Address** | **Direction / Distance** | **Map ID** | **Page** |
| ***SUNOCO SERVICE STATI*** | ***1270 JEFFERSON AVE*** | ***N 0 - 1/8 (0.103 mi.)*** | ***F40*** | ***61*** |

FUSRAP: DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

A review of the FUSRAP list, as provided by EDR, and dated 12/23/2016 has revealed that there is 1 FUSRAP site within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BUFLOVAK CO. | 1543 FILLMORE AVE. | NE 1/2 - 1 (0.924 mi.) | 67 | 123 |

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 10/01/2017 has revealed that there are 4 MANIFEST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***JEFFERSON STREET DRU*** EPA ID: NY0001046143 | ***INTERSECT. OF JEFFER*** | ***SSE 0 - 1/8 (0.028 mi.)*** | ***A18*** | ***26*** |
| ***THUMANS GARAGE INC*** EPA ID: NYD987000502 | ***1131 JEFFERSON AVE*** | ***SSE 0 - 1/8 (0.121 mi.)*** | ***G49*** | ***70*** |
| ***DIARSENOL COMPANY*** EPA ID: NYD981187040 | ***84 KINGSLEY STREET*** | ***ENE 1/8 - 1/4 (0.149 mi.)*** | ***53*** | ***78*** |
| ***BUFFALO CITY OF - WA*** EPA ID: NYD982790487 | ***295 DODGE ST*** | ***SW 1/8 - 1/4 (0.167 mi.)*** | ***54*** | ***90*** |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

# EXECUTIVE SUMMARY

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 20 EDR Hist Auto sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SHEPARD SIDNEY E | 1195 JEFFERSON AVE | E 0 - 1/8 (0.015 mi.) | A11 | 21 |
| PACIFIC OUTO SERVICE | 1199 JEFFERSON AVE | ENE 0 - 1/8 (0.015 mi.) | A12 | 22 |
| HALL SERV STA GAS ST | 1187 JEFFERSON AVE | SE 0 - 1/8 (0.025 mi.) | A15 | 23 |
| BANKS AUTOMOTIVE SER | 1165 JEFFERSON AVE | SSE 0 - 1/8 (0.046 mi.) | D21 | 29 |
| BROWNIES NORTHAMPTON | 371 NORTHAMPTON ST | ESE 0 - 1/8 (0.053 mi.) | D25 | 33 |
| KAR BAKE CORP AUTO R | 1159 JEFFERSON AVE | SSE 0 - 1/8 (0.064 mi.) | D29 | 35 |
| MERGLER THEO F REPR | 1152 JEFFERSON AVE | S 0 - 1/8 (0.081 mi.) | D32 | 39 |
| MEEKS AUTO REPAIR | 1145 JEFFERSON AVE | SSE 0 - 1/8 (0.092 mi.) | D33 | 39 |
| HARPERS AUTO SERVICE | 1137 JEFFERSON AVE | SSE 0 - 1/8 (0.101 mi.) | G36 | 41 |
| NICHTER NORBERT F GA | 29 GERHARDT ST | SE 0 - 1/8 (0.109 mi.) | 44 | 65 |
| GILLEN & ROHM FILLIN | 1131 JEFFERSON AVE | SSE 0 - 1/8 (0.121 mi.) | G48 | 69 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SIMON PHILI D GARAGE | 1209 JEFFERSON AVE | NE 0 - 1/8 (0.015 mi.) | A10 | 21 |
| BUSS ROBT H AUTO REP | 212 EATON ST | NNW 0 - 1/8 (0.017 mi.) | B13 | 22 |
| CONROY JOHN B SEWING | 1246 JEFFERSON AVE | N 0 - 1/8 (0.046 mi.) | B20 | 29 |
| DREWS JOHN J SERVICE | 1256 JEFFERSON AVE | N 0 - 1/8 (0.060 mi.) | F28 | 35 |
| SCHROEDER JOHN F AUT | 349 RILEY ST | N 0 - 1/8 (0.067 mi.) | F30 | 35 |
| LEONS SUNOCO | 1270 JEFFERSON AV | N 0 - 1/8 (0.103 mi.) | F39 | 61 |
| JONES S E & SON GARA | 46 KINGSLEY ST | ENE 0 - 1/8 (0.106 mi.) | 41 | 63 |
| GRENIER HECTOR AUTO | 1276 JEFFERSON AVE | N 0 - 1/8 (0.116 mi.) | H46 | 66 |
| KNIGHT SHELDON G AUT | 378 RILEY ST | NE 0 - 1/8 (0.124 mi.) | 50 | 74 |

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 7 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| FOUR HOUR DRY CLNRS | 1185 JEFFERSON AVE | SE 0 - 1/8 (0.029 mi.) | A19 | 29 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| TSCHOPP LEO A CLO CL | 1229 JEFFERSON AVE | NNE 0 - 1/8 (0.027 mi.) | B16 | 23 |

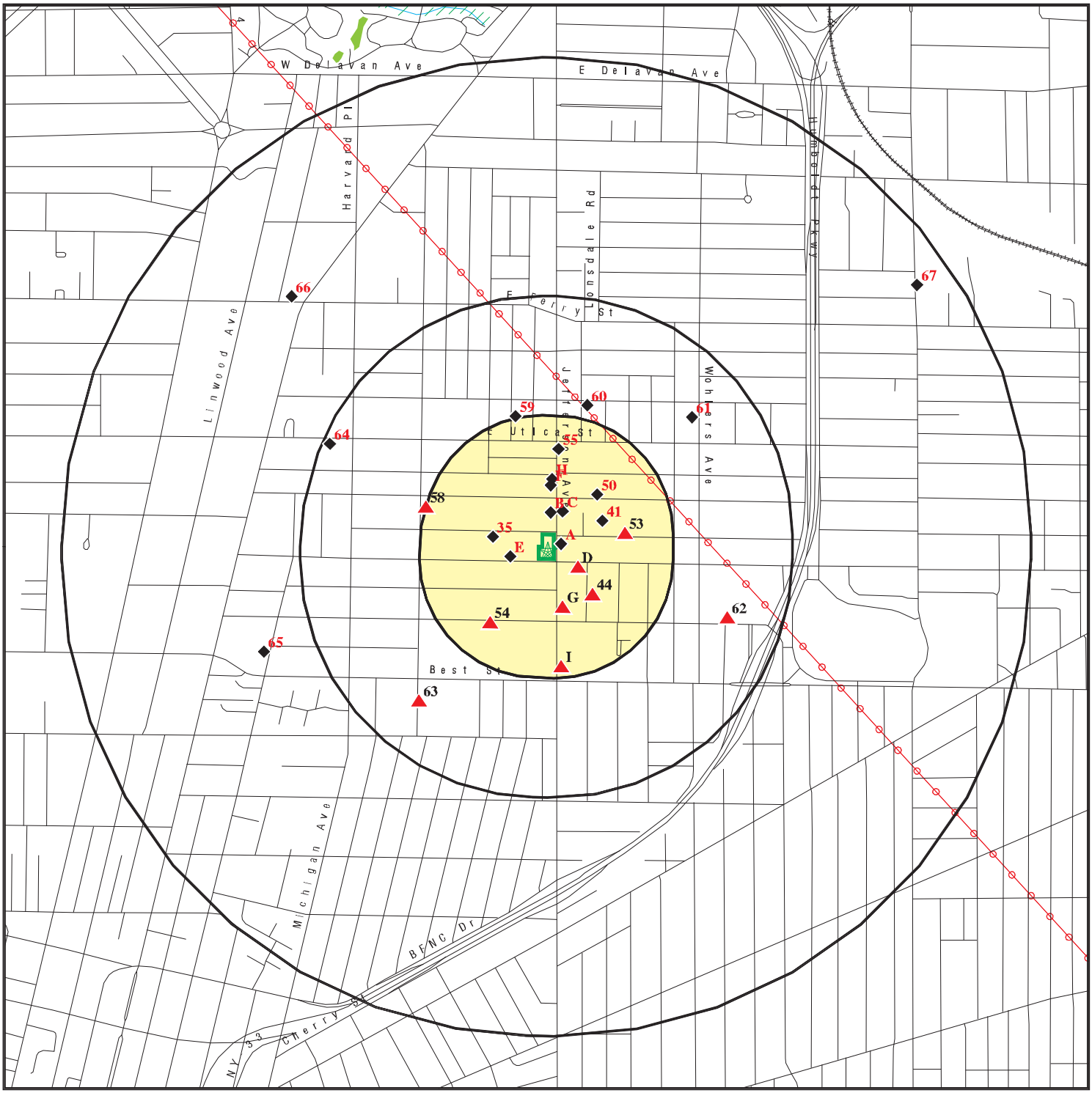
| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| LEE WINLZ LNDV | 1247 JEFFERSON AVE | NNE 0 - 1/8 (0.052 mi.) | C23 | 31 |
| WILLSEY LAUNDRY INC | 300 NORTHAMPTON PHO | W 0 - 1/8 (0.059 mi.) | E26 | 33 |
| PERRYS THREE HOUR CL | 1271 JEFFERSON AVE | NNE 0 - 1/8 (0.096 mi.) | F34 | 39 |
| COIN OPERATED LAUNDR | 1275 JEFFERSON AVE | NNE 0 - 1/8 (0.103 mi.) | F37 | 42 |
| COIN OPERATED LAUNDR | 1276 JEFFERSON AVE | N 0 - 1/8 (0.116 mi.) | H45 | 66 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

| Site Name | Database(s) |
|---|---|
| ALLIED CHEMICAL-HOPKINS ST. SITE | SHWS |
| ALAWDE FOOD MARKET | LTANKS |

# OVERVIEW MAP - 5168089.2S



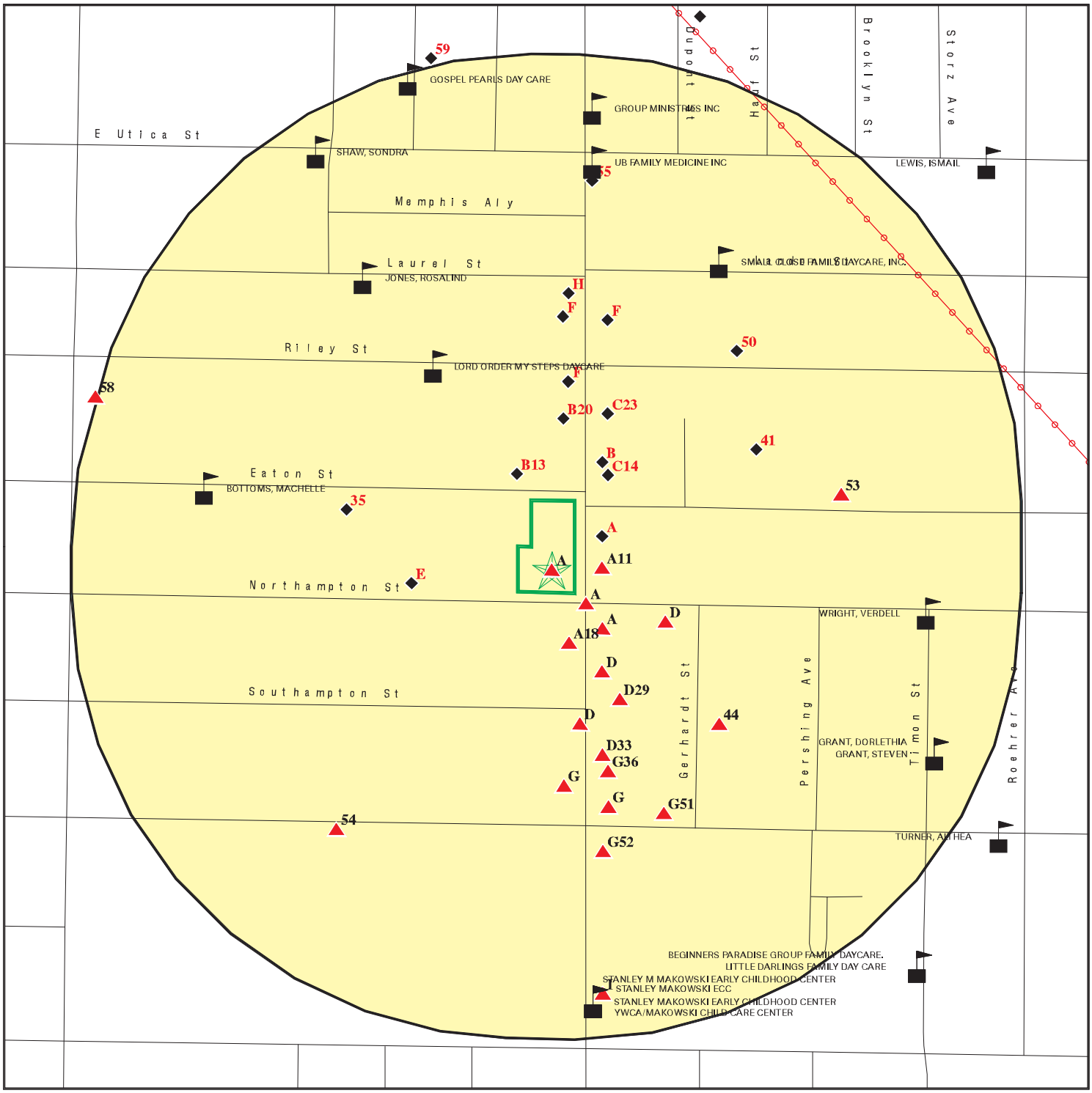

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | | | |
|---|---|---|---|
| SITE NAME: | Commercial Property | CLIENT: | TurnKey Environmental Restoration, LLC. |
| ADDRESS: | 1200-1222 Jefferson Avenue and 328 Northampton BUFFALO NY 14208 | CONTACT: | Bryan Mayback |
| LAT/LONG: | 42.90773 / 78.854354 | INQUIRY #: | 5168089.2s |
| | | DATE: | February 01, 2018 2:17 pm |

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# DETAIL MAP - 5168089.2S




0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | | | |
|---|---|---|---|
| SITE NAME: | Commercial Property | CLIENT: | TurnKey Environmental Restoration, LLC. |
| ADDRESS: | 1200-1222 Jefferson Avenue and 328 Northampton<br>BUFFALO NY 14208 | CONTACT: | Bryan Mayback |
| LAT/LONG: | 42.90773 / 78.854354 | INQUIRY #: | 5168089.2s |
| | | DATE: | February 01, 2018 2:19 pm |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | TP | | NR | NR | NR | NR | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal CERCLIS NFRAP site list*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 1 | 1 | 0 | NR | NR | 2 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-CESQG | 0.250 | | 1 | 1 | NR | NR | NR | 2 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | TP | 1 | NR | NR | NR | NR | NR | 1 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| SHWS | 1.000 | | 0 | 1 | 0 | 2 | NR | 3 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LTANKS | 0.500 | 1 | 2 | 2 | 6 | NR | NR | 11 |
| HIST LTANKS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| UST | 0.250 | | 2 | 1 | NR | NR | NR | 3 |
| CBS UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MOSF UST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| MOSF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CBS | 0.250 | 1 | 0 | 0 | NR | NR | NR | 1 |
| AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CBS AST | 0.250 | 1 | 0 | 0 | NR | NR | NR | 1 |
| MOSF AST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TANKS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal institutional control / engineering control registries*** | | | | | | | | |
| RES DECL | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| ENG CONTROLS | 0.500 | | 0 | 1 | 0 | NR | NR | 1 |
| INST CONTROL | 0.500 | | 0 | 1 | 0 | NR | NR | 1 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 1 | 0 | 0 | NR | NR | 1 |
| ERP | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| SWTIRE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | TP | | NR | NR | NR | NR | NR | 0 |
| DEL SHWS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| US CDL | TP | | NR | NR | NR | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| HIST UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| HIST AST | TP | | NR | NR | NR | NR | NR | 0 |
| ***Local Land Records*** | | | | | | | | |
| LIENS | TP | | NR | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| LIENS 2 | TP | | NR | NR | NR | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | TP | | NR | NR | NR | NR | NR | 0 |
| NY Spills | 0.125 | 1 | 11 | NR | NR | NR | NR | 12 |
| NY Hist Spills | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 90 | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 80 | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | 2 | 2 | 3 | NR | NR | NR | 7 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | TP | | NR | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | TP | | NR | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | TP | | NR | NR | NR | NR | NR | 0 |
| TRIS | TP | | NR | NR | NR | NR | NR | 0 |
| SSTS | TP | | NR | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | TP | | NR | NR | NR | NR | NR | 0 |
| RAATS | TP | | NR | NR | NR | NR | NR | 0 |
| PRP | TP | | NR | NR | NR | NR | NR | 0 |
| PADS | TP | | NR | NR | NR | NR | NR | 0 |
| ICIS | TP | | NR | NR | NR | NR | NR | 0 |
| FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| MLTS | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH DOE | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | TP | | NR | NR | NR | NR | NR | 0 |
| RADINFO | TP | | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| DOT OPS | TP | | NR | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | TP | | NR | NR | NR | NR | NR | 0 |
| US AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ABANDONED MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | TP | 2 | NR | NR | NR | NR | NR | 2 |
| ECHO | TP | 2 | NR | NR | NR | NR | NR | 2 |
| DOCKET HWC | TP | | NR | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DRYCLEANERS | 0.250 | 1 | 0 | 0 | NR | NR | NR | 1 |
| E DESIGNATION | 0.125 | | 0 | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| Financial Assurance | TP | | NR | NR | NR | NR | NR | 0 |
| HSWDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| MANIFEST | 0.250 | 1 | 2 | 2 | NR | NR | NR | 5 |
| SPDES | TP | | NR | NR | NR | NR | NR | 0 |
| VAPOR REOPENED | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| UIC | TP | | NR | NR | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 20 | NR | NR | NR | NR | 20 |
| EDR Hist Cleaner | 0.125 | 2 | 7 | NR | NR | NR | NR | 9 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA HWS | TP | | NR | NR | NR | NR | NR | 0 |
| RGA LF | TP | | NR | NR | NR | NR | NR | 0 |
| - Totals -- | | 15 | 49 | 13 | 7 | 3 | 0 | 87 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1 Target Property** **PENDRICK LAUNDRY**
**1198 JEFFERSON AVENUE**
**BUFFALO, NY 14208**

**DRYCLEANERS** **S110247600**
**N/A**

**Site 1 of 15 in cluster A**

**Actual: 640 ft.**

DRYCLEANERS:

| | |
|---|---|
| Facility ID: | 9-1402-00691 |
| Phone Number: | Not reported |
| Region: | Not reported |
| Registration Effective Date: | N/A |
| Inspection Date: | 09APR27 |
| Install Date: | 91/95 |
| Drop Shop: | Not reported |
| Shutdown: | Y |
| Alternate Solvent: | Not reported |
| Current Business: | Not reported |

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**A2 Target Property** **PENDRICK LAUNDRY**
**1198 JEFFERSON AVE**
**BUFFALO, NY 14208**

**RCRA NonGen / NLR** **1000192038**
**FINDS** **NYD013755459**
**ECHO**
**MANIFEST**

**Site 2 of 15 in cluster A**

**Actual: 640 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date form received by agency: | 01/01/2007 |
| Facility name: | PENDRICK LAUNDRY |
| Facility address: | 1198 JEFFERSON AVE<br>BUFFALO, NY 14208 |
| EPA ID: | NYD013755459 |
| Mailing address: | JEFFERSON AVE<br>BUFFALO, NY 14208 |
| Contact: | Not reported |
| Contact address: | JEFFERSON AVE<br>BUFFALO, NY 14208 |
| Contact country: | US |
| Contact telephone: | Not reported |
| Contact email: | Not reported |
| EPA Region: | 02 |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | Not reported |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, WY 99999 |
| Owner/operator country: | US |
| Owner/operator telephone: | 212-555-1212 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | Not reported |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, WY 99999 |

**PENDRICK LAUNDRY (Continued)** **1000192038**

Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: PENDRICK LAUNDRY
Classification: Not a generator, verified

Date form received by agency: 03/31/1995
Site name: PENDRICK LAUNDRY
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Date form received by agency: 05/20/1985
Site name: PENDRICK LAUNDRY
Classification: Large Quantity Generator

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

**PENDRICK LAUNDRY (Continued)** **1000192038**

FINDS:

Registry ID: 110004350345

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000192038
Registry ID: 110004350345
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004350345

NY MANIFEST:
Country: USA
EPA ID: NYD013755459
Facility Status: Not reported
Location Address 1: 1198 JEFFERSONA VENUE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BUFFALO
Location State: NY
Location Zip: 14208
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD013755459
Mailing Name: PENDRICK LAUNDRY INCORPORATED
Mailing Contact: PENDRICK LAUNDRY INCORPORATED
Mailing Address 1: 1198 JEFFERSONA VENUE
Mailing Address 2: Not reported
Mailing City: BUFFALO
Mailing State: NY
Mailing Zip: 14208
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7168857600

NY MANIFEST:
Document ID: NYA9245913
Manifest Status: C
seq: Not reported
Year: 1989

**PENDRICK LAUNDRY (Continued)** **1000192038**

| | |
|---|---|
| Trans1 State ID: | NYMJ1781 |
| Trans2 State ID: | Not reported |
| Generator Ship Date: | 05/26/1989 |
| Trans1 Recv Date: | 05/26/1989 |
| Trans2 Recv Date: | / / |
| TSD Site Recv Date: | 05/26/1989 |
| Part A Recv Date: | 06/02/1989 |
| Part B Recv Date: | 05/31/1989 |
| Generator EPA ID: | NYD013755459 |
| Trans1 EPA ID: | ILD051060408 |
| Trans2 EPA ID: | Not reported |
| TSDF ID 1: | NYD981556541 |
| TSDF ID 2: | Not reported |
| Manifest Tracking Number: | Not reported |
| Import Indicator: | Not reported |
| Export Indicator: | Not reported |
| Discr Quantity Indicator: | Not reported |
| Discr Type Indicator: | Not reported |
| Discr Residue Indicator: | Not reported |
| Discr Partial Reject Indicator: | Not reported |
| Discr Full Reject Indicator: | Not reported |
| Manifest Ref Number: | Not reported |
| Alt Facility RCRA ID: | Not reported |
| Alt Facility Sign Date: | Not reported |
| MGMT Method Type Code: | Not reported |
| Waste Code: | F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Quantity: | 00630 |
| Units: | P - Pounds |
| Number of Containers: | 009 |
| Container Type: | DM - Metal drums, barrels |
| Handling Method: | R Material recovery of more than 75 percent of the total material. |
| Specific Gravity: | 100 |

Click this hyperlink while viewing on your computer to access
18 additional NY_MANIFEST: record(s) in the EDR Site Report.

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**A3** **ERNS 89111780**
**Target Property** **1198 JEFFERSON AVE** **N/A**
**BUFFALO, NY**

**Site 3 of 15 in cluster A**

**Actual: 640 ft.**

Click this hyperlink while viewing on your computer to access
additional ERNS detail in the EDR Site Report.

**A4** **PENDRICK LAUNDRY INC** **EDR Hist Cleaner** **1014535877**
**Target Property** **1198 JEFFERSON AVE** **N/A**
**BUFFALO, NY**

**Site 4 of 15 in cluster A**

**Actual: 640 ft.**

EDR Hist Cleaner

| Year: | Name: | Type: |
|---|---|---|
| 1955 | PENDRICK LAUNDRY INC | LAUNDRIES |
| 1960 | PENDRICK LAUNDRY INC | LAUNDRIES |
| 1964 | PENDRICK LAUNDRY INC | LAUNDRIES |
| 1970 | PENDRICK LAUNDRY INC | LAUNDRIES |
| 1971 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1972 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1973 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1974 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1975 | PENDRICK LAUNDRY INC | LAUNDRIES AND DRY CLEANERS |
| 1975 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1976 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1977 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1978 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1979 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1980 | PENDRICK LAUNDRY INC | LAUNDRIES AND DRY CLEANERS |
| 1980 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1982 | PENDRICK LAUNDRY INC | Power Laundries, Family And Commercial |
| 1985 | BUFFALO INSTITUTIONAL SERVICE L | LAUNDRIES AND DRY CLEANERS |
| 1985 | PENDRICK LAUNDRY INC | LAUNDRIES AND DRY CLEANERS |
| 1987 | PENDRICK LAUNDRY INC | Linen Supply |
| 2002 | SPOTLESS CLEANING CO | Carpet And Upholstery Cleaning |

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**A5** **ANGELICA TEXTILE SERVICES, INC.** **LTANKS** **S100560422**
**Target Property** **1198 JEFFERSON AVE.** **CBS** **N/A**
**BUFFALO, NY 14208** **CBS AST**
**NY Spills**

**Site 5 of 15 in cluster A**

**Actual: 640 ft.**

LTANKS:

| | |
|---|---|
| Facility ID: | 9305238 |
| Site ID: | 228221 |
| Closed Date: | 1994-01-28 |
| Spill Number: | 9305238 |
| Spill Date: | 1993-07-27 |
| Spill Cause: | Tank Failure |
| Spill Source: | Commercial/Industrial |
| Spill Class: | B3 |
| Cleanup Ceased: | 1994-01-28 |
| SWIS: | 1502 |
| Investigator: | COOKE |
| Referred To: | Not reported |
| Reported to Dept: | 1993-07-27 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Other |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | True |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1993-07-29 |

**ANGELICA TEXTILE SERVICES, INC. (Continued)** **S100560422**

| | |
|---|---|
| Spill Record Last Update: | 1994-01-31 |
| Spiller Name: | Not reported |
| Spiller Company: | BUFFALO INSTITUTIONAL SVC |
| Spiller Address: | Not reported |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 188260 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was JDC 07/27/93: JDC/PETE HITCHCOCK, ELMWOOD TANK/TELECON - VERIFIED THAT CONTAM. SOIL WAS REMOVED AND BEING STAGED ON-SITE. EXCAVATION BEING TESTED. SENT LETTER TO MR. MATEN OUTLINING PROTOCOLS. 09/15/93: JDC/MR. MATEN/TELECON - HE ADVISED THAT CLEANUP WAS COMPLETE. REQUESTED SOIL DISPOSAL INFO. TO CLOSE FILE. HE WILL FORWARD THAT INFORMATION. 10/04/93: JDC/JOEL MATEN/TELECON - REQUESTED DISPOSAL VERIFICATION ON SOIL. WILL SEND LETTER TO R.P. UPON COMPLETION OF AL CLEANUP REQUIREMENTS. 01/28/94: JDC REVIEWED FILE AND FOUND COMPLETE. NO FURTHER ACTION REQUIRED. ALL 3 TANKS WERE LOCATED IN SAME EXCAVATION. " |
| Remarks: | "CONTAMINATED SOIL DISCOVERED DURING TANK REMOVAL." |

All Materials:

| | |
|---|---|
| Site ID: | 228221 |
| Operable Unit ID: | 983519 |
| Operable Unit: | 01 |
| Material ID: | 395174 |
| Material Code: | 0009 |
| Material Name: | gasoline |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | Not reported |
| Recovered: | .00 |
| Oxygenate: | Not reported |

CBS:

| | |
|---|---|
| CBS Number: | 9-000157 |
| Program Type: | CBS |
| Facility Status: | Unregulated/Closed |
| Expiration Date: | Not reported |
| Dec Region: | 9 |
| UTMX: | 185374.50119 |
| UTMY: | 4757756.55573 |

CBS AST:

| | |
|---|---|
| CBS Number: | 9-000157 |
| ICS Number: | - |
| PBS Number: | Not reported |
| MOSF Number: | Not reported |
| SPDES Number: | Not reported |
| Facility Status: | IN SERVICE |
| Facility Type: | I |
| Telephone: | (716) 885-7600 |
| Facility Town: | BUFFALO (C) |

**ANGELICA TEXTILE SERVICES, INC. (Continued)** **S100560422**

| | |
|---|---|
| Region: | STATE |
| Expiration Date: | 12/28/2000 |
| Total Capacity of All Active Tanks(gal): | 0 |
| Operator: | ANGELICA TEXTILE SERVICES, INC |
| Emergency Contact: | TIM KELSO |
| Emergency Phone: | (716) 343-2696 |
| Owner Name: | ANGELICA TEXTILE SERVICES, INC. |
| Owner Address: | 424 SOUTH WOODS MILL ROAD |
| Owner City,St,Zip: | CHESTERFIELD, MO 63017-3406 |
| Owner Telephone: | (314) 854-3800 |
| Owner Type: | Corporate/Commercial |
| Owner Sub Type: | Not reported |
| Mail Name: | ANGELICA TEXTILE SERVICES, INC. |
| Mail Contact Addr: | 424 SOUTH WOODS MILL ROAD |
| Mail Contact Addr2: | SUITE 300 |
| Mail Contact Contact: | E. ANN BOBELAK |
| Mail Contact City,St,Zip: | CHESTERFIELD, MO 63017-3406 |
| Mail Phone: | (314) 854-3800 |

| | |
|---|---|
| Tank Id: | 2 |
| CAS Number: | 7782505 |
| Federal ID: | Not reported |
| Tank Status: | 0 |
| Install Date: | 00/00 |
| Tank Closed: | 07/99 |
| Capacity (Gal): | 1000 |
| Chemical: | Chlorine |
| Tank Location: | Indoors, Aboveground |
| Tank Type: | Fiberglass reinforced plastic [FRP] |
| Total Tanks: | 0 |
| Tank Secret: | False |
| Tank Secondary Containment: | None |
| Tank Error Status: | No Missing Data |
| Date Entered: | 07/05/1989 |
| Certified Date: | 10/08/1998 |
| Substance: | Single Hazardous Substance on DEC List |
| Internal Protection: | None |
| External Protection: | None |
| Pipe Location: | Aboveground |
| Pipe Type: | Double Walled Fiberglass |
| Pipe Internal: | None |
| Pipe External: | None |
| Pipe Flag: | None |
| Leak Detection: | None |
| Overfill Protection: | Other |
| Haz Percent: | 15 |
| Last Test: | Not reported |
| Due Date: | Not reported |
| SWIS Code: | 1402 |
| Lat/Long: | Not reported |
| Is Updated: | False |
| Renew Date: | 04/01/93 |
| Is It There: | False |
| Delinquent: | False |
| Date Expired: | 07/05/95 |
| Owner Mark: | 2 |
| Certificate Needs to be Printed: | False |

**ANGELICA TEXTILE SERVICES, INC. (Continued)** **S100560422**

Fiscal Amt for Registration Fee Correct: True
Renewal Has Been Printed for Facility: True
Pre-Printed Renewal App Last Printed: 09/01/1998

| | |
|---|---|
| Tank Id: | 1 |
| CAS Number: | 1310732 |
| Federal ID: | Not reported |
| Tank Status: | 0 |
| Install Date: | 00/00 |
| Tank Closed: | 07/99 |
| Capacity (Gal): | 1000 |
| Chemical: | Sodium hydroxide |
| Tank Location: | Indoors, Aboveground |
| Tank Type: | Fiberglass reinforced plastic [FRP] |
| Total Tanks: | 0 |
| Tank Secret: | False |
| Tank Secondary Containment: | None |
| Tank Error Status: | No Missing Data |
| Date Entered: | 07/05/1989 |
| Certified Date: | 10/08/1998 |
| Substance: | Single Hazardous Substance on DEC List |
| Internal Protection: | None |
| External Protection: | None |
| Pipe Location: | Aboveground |
| Pipe Type: | Double Walled Fiberglass |
| Pipe Internal: | None |
| Pipe External: | None |
| Pipe Flag: | None |
| Leak Detection: | None |
| Overfill Protection: | Other |
| Haz Percent: | 30 |
| Last Test: | Not reported |
| Due Date: | Not reported |
| SWIS Code: | 1402 |
| Lat/Long: | Not reported |
| Is Updated: | False |
| Renew Date: | 04/01/93 |
| Is It There: | False |
| Delinquent: | False |
| Date Expired: | 07/05/95 |
| Owner Mark: | 2 |
| Certificate Needs to be Printed: | False |
| Fiscal Amt for Registration Fee Correct: | True |
| Renewal Has Been Printed for Facility: | True |
| Pre-Printed Renewal App Last Printed: | 09/01/1998 |

SPILLS:

| | |
|---|---|
| Facility ID: | 8902796 |
| Facility Type: | ER |
| Spill Number: | 8902796 |
| DER Facility ID: | 61319 |
| Site ID: | 63486 |
| DEC Region: | 9 |
| Closed Date: | 1989-09-23 |
| Spill Cause: | Other |
| Spill Class: | Not reported |

**ANGELICA TEXTILE SERVICES, INC. (Continued)** **S100560422**

| | |
|---|---|
| SWIS: | 1502 |
| Spill Date: | 1989-06-17 |
| Investigator: | PRINGLE |
| Referred To: | Not reported |
| Reported to Dept: | 1989-06-17 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Commercial/Industrial |
| Spill Notifier: | Fire Department |
| Cleanup Ceased: | 1989-09-23 |
| Cleanup Meets Std: | True |
| Last Inspection: | 1989-06-19 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1989-07-12 |
| Spill Record Last Update: | 1989-10-02 |
| Spiller Name: | Not reported |
| Spiller Company: | PENDRICK LAUNDRY |
| Spiller Address: | 1198 JEFFERSON STREET |
| Spiller Company: | 001 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MNP 09/23/89: 9/23/89 MNP REVIEW OF FILE, NO ACTION NEEDED BY DEC, COMPLETE. 09/29/95: This is additional information about material spilled from the translation of the old spill file: SODIUM HYDROSULFITE." |
| Remarks: | "DRUM OF MATERIAL SELF-IGNITED FROM CONTACT WITH WATER" |
| | |
| Facility ID: | 9501902 |
| Facility Type: | ER |
| Spill Number: | 9501902 |
| DER Facility ID: | 188260 |
| Site ID: | 228222 |
| DEC Region: | 9 |
| Closed Date: | 1995-05-30 |
| Spill Cause: | Housekeeping |
| Spill Class: | E6 |
| SWIS: | 1502 |
| Spill Date: | 1995-05-01 |
| Investigator: | COOKE |
| Referred To: | Not reported |
| Reported to Dept: | 1995-05-12 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Commercial/Industrial |
| Spill Notifier: | Local Agency |
| Cleanup Ceased: | 1995-05-30 |
| Cleanup Meets Std: | True |
| Last Inspection: | 1995-05-30 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1995-05-16 |
| Spill Record Last Update: | 1995-06-05 |
| Spiller Name: | Not reported |
| Spiller Company: | NONE |

**ANGELICA TEXTILE SERVICES, INC. (Continued)** **S100560422**

Spiller Address: Not reported
Spiller Company: 999
Contact Name: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was JDC 05/30/95: JDC ON SITE AND MET W/ ASST MGR RICHARD OLSZEWSKI AND INSPECTED FACILITY. REPORTED DRUMS ARE EMPTY SOAP DRUMS WAITING FOR SUPPLER PICKUP. NO SPILLS OR EVIDENCE OF POOR OPERATIONS. NO FURTHER ACTION. 05/31/95: JDC CONTACTED LEGISLATOR HOLTS AND REPORTED FINDINGS. WAS SATISFIED WITH OUR RESPONSE. NO FURTHER ACTION REQUIRED. 09/29/95: This is additional information about material spilled from the translation of the old spill file: EMPTY DRUMS."
Remarks: "POOR HOUSEKEEPING PRACTICES DRUMS AND MACHINARY BEHIND BUILDING"

---

**A6** **PENDRICK LAUNDRY INC** **RCRA NonGen / NLR** **1000872485**
**Target** **1200 JEFFERSON AVE** **FINDS** **NYD987036985**
**Property** **BUFFALO, NY 14208** **ECHO**

**Site 6 of 15 in cluster A**

**Actual: 640 ft.**

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: PENDRICK LAUNDRY INC
Facility address: 1200 JEFFERSON AVE
BUFFALO, NY 14208
EPA ID: NYD987036985
Mailing address: JEFFERSON AVE
BUFFALO, NY 14208
Contact: Not reported
Contact address: JEFFERSON AVE
BUFFALO, NY 14208
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: PENDRICK LAUNDRY INC
Owner/operator address: 1198 JEFFERSON AVE
BUFFALO, NY 14208
Owner/operator country: US
Owner/operator telephone: 716-882-2239
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PENDRICK LAUNDRY INC
Owner/operator address: 1198 JEFFERSON AVE
BUFFALO, NY 14208
Owner/operator country: US
Owner/operator telephone: 716-882-2239
Owner/operator email: Not reported

**PENDRICK LAUNDRY INC (Continued)** **1000872485**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: PENDRICK LAUNDRY INC
Classification: Not a generator, verified

Date form received by agency: 01/18/1994
Site name: PENDRICK LAUNDRY INC
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Date form received by agency: 07/08/1993
Site name: PENDRICK LAUNDRY INC
Classification: Small Quantity Generator

. Waste code: X003
. Waste name: OTHER STATE REGULATED WASTES [i.e., DIESEL FUEL, GASOLINE AND HOME HEATING OIL]

Violation Status: No violations found

FINDS:

Registry ID: 110004506455

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**PENDRICK LAUNDRY INC (Continued)** **1000872485**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000872485 |
| Registry ID: | 110004506455 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110004506455 |

---

**A7** **PENDRICK LAUNDRY INC** **EDR Hist Cleaner** **1014535550**
**Target** **1202 JEFFERSON AVE** **N/A**
**Property** **BUFFALO, NY**

**Site 7 of 15 in cluster A**

**Actual: 640 ft.**

EDR Hist Cleaner

| Year: | Name: | Type: |
|---|---|---|
| 1940 | PENDRICK LAUNDRY INC | DYERS AND CLEANERS |
| 1940 | PENDRICK LAUNDRY INC | CLEANERS AND DYERS |
| 1940 | PENDRICK LAUNDRY INC | CLOTHES PRESSERS |
| 1940 | PENDRICK LAUNDRY INC | STEAM LAUNDRIES |
| 1940 | PENDRICK LAUNDRY INC | DRY CLEANERS |
| 1940 | PENDRICK LAUNDRY INC | LAUNDRIES - STEAM |
| 1946 | PENDRICK LAUNDRY INC | LAUNDRIES - STEAM |
| 1950 | PENDRICK LAUNDRY INC | LAUNDRIES |

---

**A8** **NYNEX** **NY Spills** **S102245376**
**SE** **JEFFERSON & NORTHAMPTON** **N/A**
**< 1/8** **BUFFALO, NY**
**0.009 mi.**
**45 ft.**

**Site 8 of 15 in cluster A**

**Relative: Higher**

**Actual: 640 ft.**

SPILLS:

| | |
|---|---|
| Facility ID: | 9601909 |
| Facility Type: | ER |
| Spill Number: | 9601909 |
| DER Facility ID: | 159467 |
| Site ID: | 191173 |
| DEC Region: | 9 |
| Closed Date: | 1996-11-18 |
| Spill Cause: | Equipment Failure |
| Spill Class: | C3 |
| SWIS: | 1502 |
| Spill Date: | 1996-05-08 |
| Investigator: | FXGALLEG |
| Referred To: | Not reported |
| Reported to Dept: | 1996-05-08 |
| CID: | 199 |
| Water Affected: | Not reported |
| Spill Source: | Commercial Vehicle |
| Spill Notifier: | Responsible Party |
| Cleanup Ceased: | 1996-11-18 |
| Cleanup Meets Std: | True |
| Last Inspection: | 1996-05-08 |
| Recommended Penalty: | False |

**NYNEX (Continued)** **S102245376**

| | |
|---|---|
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1996-05-08 |
| Spill Record Last Update: | 1999-10-08 |
| Spiller Name: | SUSMITA BISWAS |
| Spiller Company: | NYNEX |
| Spiller Address: | 221 EAST 37TH ST,4TH FL |
| Spiller Company: | 001 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was FG 5/8/96 SITE VISIT. SOIL HAS BEEN CLEANED UP. DISPOSAL RECEIPT IS REQUIRED. 5/13/96 LTR REQUESTING SOIL ANALYTICAL & DISPOSAL SENT TO NYNEX. RESPONSE REQUESTED BY 5/31/96. 5/20/96 RECD ANALYTICAL RESULTS FROM CONTAMINATED SOIL PILE. 10/8/96 LTR REQUESTING DISPOSAL RECPT SENT. RESPONSE DUE BY 11/1/96. 11/15/96 DISPOSAL RECPT RECD. SITE CAN BE CLOSED." |
| Remarks: | "HYDRAULIC LINE TO NYNEX TRUCK BROKE IN A FIELD AT JEFFERSON AND NORTHAMPTON. EP&S WILL CLEAN AND SAMPLE SOIL.SOIL TO BE STAGED AT EP&S PRIOR TO DISPOSAL " |

All Materials:

| | |
|---|---|
| Site ID: | 191173 |
| Operable Unit ID: | 1033463 |
| Operable Unit: | 01 |
| Material ID: | 351704 |
| Material Code: | 0010 |
| Material Name: | hydraulic oil |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | 20.00 |
| Units: | G |
| Recovered: | 20.00 |
| Oxygenate: | Not reported |

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**A9** **ABANDONED DRUMS OF PAINT** **NY Spills** **S102179250**
**SE** **JEFFERSON & NORTHAMPTON** **N/A**
**< 1/8** **BUFFALO, NY**
**0.009 mi.**
**45 ft.** **Site 9 of 15 in cluster A**

**Relative:**
**Higher**

**Actual:**
**640 ft.**

SPILLS:

| | |
|---|---|
| Facility ID: | 9413833 |
| Facility Type: | ER |
| Spill Number: | 9413833 |
| DER Facility ID: | 159467 |
| Site ID: | 191172 |
| DEC Region: | 9 |
| Closed Date: | 1995-01-31 |
| Spill Cause: | Abandoned Drums |
| Spill Class: | D6 |
| SWIS: | 1502 |
| Spill Date: | 1994-11-01 |
| Investigator: | PRINGLE |
| Referred To: | Not reported |
| Reported to Dept: | 1995-01-17 |
| CID: | Not reported |
| Water Affected: | Not reported |

**ABANDONED DRUMS OF PAINT (Continued)** **S102179250**

| | |
|---|---|
| Spill Source: | Unknown |
| Spill Notifier: | Responsible Party |
| Cleanup Ceased: | 1995-01-31 |
| Cleanup Meets Std: | True |
| Last Inspection: | 1995-01-25 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1995-01-31 |
| Spill Record Last Update: | 1995-04-13 |
| Spiller Name: | Not reported |
| Spiller Company: | UNKNOWN |
| Spiller Address: | Not reported |
| Spiller Company: | 999 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MNP 01/17/95: 1/17/95 MNP RESPONSE. ESTIMATE MORE THAN 50 DRUMS OF PAINT, THINNERS, VARNISH, LACQUER, ETC. 40 PLUS PAILS OF PAINT, SEE SKETCH. 01/25/95: 1/25/95 MNP INSP. NO ONE AT SITE, ADJACENT BUILDING ABANDONED. ESTIMATE MORE THAN 50 DRUMS OF PAINT, THINNERS, VARNISH, LACQUER, ETC. 40 PLUS PAILS OF PAINT, SEE PICTURES. 01/31/95: 1/31/95 REFERRAL MEMO TO BEUCHI - DHWR. SPILL FILE COMPLETE. 09/29/95: This is additional information about material spilled from the translation of the old spill file: PAINT, THINNER, ETC. " |
| Remarks: | "50 ABANDONED DRUMS. DUMPED ABOUT 2 MONTHS AGO." |

---

**A10** **SIMON PHILI D GARAGE** **EDR Hist Auto** **1014538668**
**NE** **1209 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.015 mi.**
**81 ft.** **Site 10 of 15 in cluster A**

**Relative:** EDR Hist Auto
**Lower**

**Actual:** **639 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1930 | SIMON PHILI D GARAGE | AUTOMOBILE GARAGES |

---

**A11** **SHEPARD SIDNEY E** **EDR Hist Auto** **1014537144**
**East** **1195 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.015 mi.**
**81 ft.** **Site 11 of 15 in cluster A**

**Relative:** EDR Hist Auto
**Higher**

**Actual:** **640 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1940 | SHEPARD SIDNEY E FILLING STA | GASOLINE AND OIL SERVICE STATIONS |
| 1946 | SHEPARD SIDNEY E FILLING STA | GASOLINE AND OIL SERVICE STATIONS |
| 1950 | SHEPARD SIDNEY E FILLING STA | GASOLINE STATIONS |
| 1955 | SHEPARD SIDNEY E FILLING STA | GASOLINE STATIONS |
| 1960 | SHEPARD SIDNEY E GAS STA | GASOLINE STATIONS |
| 1964 | SHEPARD SIDNEY E GAS STA | GASOLINE STATIONS |
| 1969 | SHEPARD SIDNEY E | Gasoline Service Stations |
| 1970 | STADIUM SERVICE STATION | GASOLINE STATIONS |
| 1970 | SHEPARD SIDNEY E | Gasoline Service Stations |
| 1971 | SHEPARD SIDNEY E | Gasoline Service Stations |

**SHEPARD SIDNEY E (Continued)** **1014537144**

1972 SHEPARD SIDNEY E Gasoline Service Stations

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**A12** **PACIFIC OUTO SERVICE OF** **EDR Hist Auto** **1014539339**
**ENE** **1199 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.015 mi.**
**81 ft.** **Site 12 of 15 in cluster A**

**Relative:** EDR Hist Auto
**Higher**

| | Year: | Name: | Type: |
|---|---|---|---|
| **Actual:** | 1930 | PACIFIC OUTO SERVICE OF | AUTOMOBILE REPAIRING |
| **640 ft.** | 1930 | PACIFIC OUTO SERVICE OF | AUTOMOBILE GARAGES |

---

**B13** **BUSS ROBT H AUTO REPR** **EDR Hist Auto** **1014537629**
**NNW** **212 EATON ST** **N/A**
**< 1/8** **BUFFALO, NY**
**0.017 mi.**
**89 ft.** **Site 1 of 4 in cluster B**

**Relative:** EDR Hist Auto
**Lower**

| | Year: | Name: | Type: |
|---|---|---|---|
| **Actual:** | 1940 | HALL GLENN L AUTO REPR | AUTOMOBILE REPAIRING |
| **639 ft.** | 1946 | BUSS ROBT H AUTO REPR | AUTOMOBILE REPAIRING |
| | 1950 | WILSON WM J AUTO REPR | AUTOMOBILE REPAIRING |

---

**C14** **FIRE HOUSE ENGINE 21 LADD** **NY Spills** **S107408343**
**NNE** **1223 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.024 mi.**
**125 ft.** **Site 1 of 2 in cluster C**

**Relative:** SPILLS:
**Lower**

| | |
|---|---|
| **Actual:** Facility ID: | 0506213 |
| **639 ft.** Facility Type: | ER |
| Spill Number: | 0506213 |
| DER Facility ID: | 298653 |
| Site ID: | 351386 |
| DEC Region: | 9 |
| Closed Date: | 2005-08-23 |
| Spill Cause: | Unknown |
| Spill Class: | D5 |
| SWIS: | 1502 |
| Spill Date: | 2005-08-19 |
| Investigator: | JFOTTO |
| Referred To: | Not reported |
| Reported to Dept: | 2005-08-19 |
| CID: | 409 |
| Water Affected: | Not reported |
| Spill Source: | Unknown |
| Spill Notifier: | Fire Department |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | True |
| Last Inspection: | 2005-08-22 |

**FIRE HOUSE ENGINE 21 LADD (Continued)** **S107408343**

| | |
|---|---|
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2005-08-19 |
| Spill Record Last Update: | 2005-08-23 |
| Spiller Name: | UNKNOWN |
| Spiller Company: | UNKNOWN. |
| Spiller Address: | Not reported |
| Spiller Company: | 001 |
| Contact Name: | SHERRY SAPIR |
| DEC Memo: | "08/22/05 JFO ON SITE MET WITH PAT MCCARTHY AND SPOKE WITH NEIL KEANE AND TOM FITZPATRICK ALL OF THE BFD. THE DRUM HAS ABOUT 5 GALLONS OF RUSTY WATER. NOTHING WAS SPILLED. THE FIRE DEPT WILL RELEASE TO THE SANITARY SEWER. NO FURTHER ACTION REQUIRED. CLOSED THERE IS NO PAPER FILE FOR THIS SPILL" |
| Remarks: | "THERE IS A BARREL THAT NEEDS TO BE PICKED UP. " |

All Materials:

| | |
|---|---|
| Site ID: | 351386 |
| Operable Unit ID: | 1108904 |
| Operable Unit: | 01 |
| Material ID: | 2098879 |
| Material Code: | 0064A |
| Material Name: | unknown material |
| Case No.: | Not reported |
| Material FA: | Other |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

---

**A15** **HALL SERV STA GAS STA** **EDR Hist Auto** **1014537332**
**SE** **1187 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.025 mi.**
**132 ft.** **Site 13 of 15 in cluster A**

**Relative: Higher**

EDR Hist Auto

**Actual: 641 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1940 | WALTERS JAS FILLING STA | GASOLINE AND OIL SERVICE STATIONS |
| 1950 | FRONTIER FUEL OIL CORP BR | GASOLINE STATIONS |
| 1960 | HALL SERV STA GAS STA | GASOLINE STATIONS |

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**B16** **TSCHOPP LEO A CLO CLNR** **EDR Hist Cleaner** **1014535047**
**NNE** **1229 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.027 mi.**
**141 ft.** **Site 2 of 4 in cluster B**

**Relative: Lower**

EDR Hist Cleaner

**Actual: 639 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1946 | TSCHOPP LEO A CLO CLNR | CLEANERS AND DYERS |

**B17** **ENGINE 21** **UST** **U004192452**
**NNE** **1229 JEFFERSON** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.027 mi.**
**141 ft.** **Site 3 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**639 ft.**

UST:

| | |
|---|---|
| Id/Status: | 9-601341 / Active |
| Program Type: | PBS |
| Region: | STATE |
| DEC Region: | 9 |
| Expiration Date: | 10/22/2022 |
| UTM X: | 185393.04850 |
| UTM Y: | 4757869.19986 |
| Site Type: | Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.) |

Affiliation Records:

| | |
|---|---|
| Site Id: | 470269 |
| Affiliation Type: | Facility Owner |
| Company Name: | CITY OF BUFFALO - INVENTORY & STORES |
| Contact Type: | SUPERINTENDENT |
| Contact Name: | PAUL L DESIDERIO |
| Address1: | 1901 CITY HALL |
| Address2: | Not reported |
| City: | BUFFALO |
| State: | NY |
| Zip Code: | 14202 |
| Country Code: | 001 |
| Phone: | (716) 851-5222 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | JNNG |
| Date Last Modified: | 2016-02-03 |

| | |
|---|---|
| Site Id: | 470269 |
| Affiliation Type: | Mail Contact |
| Company Name: | CITY OF BUFFALO DEPT OF INVENTORY & STORES |
| Contact Type: | Not reported |
| Contact Name: | PAUL L DESIDERIO |
| Address1: | 1901 CITY HALL |
| Address2: | Not reported |
| City: | BUFFALO |
| State: | NY |
| Zip Code: | 14202 |
| Country Code: | 001 |
| Phone: | (716) 851-5562 |
| EMail: | PDESIDERIO@CITY-BUFFALO.COM |
| Fax Number: | Not reported |
| Modified By: | aeskalsk |
| Date Last Modified: | 2012-10-22 |

| | |
|---|---|
| Site Id: | 470269 |
| Affiliation Type: | Emergency Contact |
| Company Name: | CITY OF BUFFALO - INVENTORY & STORES |
| Contact Type: | Not reported |
| Contact Name: | PAUL L DESIDERIO |
| Address1: | Not reported |
| Address2: | Not reported |
| City: | Not reported |
| State: | NN |

**ENGINE 21 (Continued)** **U004192452**

| | |
|---|---|
| Zip Code: | Not reported |
| Country Code: | 999 |
| Phone: | (716) 982-2832 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | JNNG |
| Date Last Modified: | 2016-02-03 |

| | |
|---|---|
| Site Id: | 470269 |
| Affiliation Type: | Facility Operator |
| Company Name: | ENGINE 21 |
| Contact Type: | Not reported |
| Contact Name: | PAUL DESIDERIO |
| Address1: | Not reported |
| Address2: | Not reported |
| City: | Not reported |
| State: | NN |
| Zip Code: | Not reported |
| Country Code: | 001 |
| Phone: | (716) 851-5222 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | AYLAGATI |
| Date Last Modified: | 2017-05-31 |

Tank Info:

| | |
|---|---|
| Tank Number: | 1 |
| Tank ID: | 246069 |
| Tank Status: | In Service |
| Material Name: | In Service |
| Capacity Gallons: | 1000 |
| Install Date: | 02/03/2000 |
| Date Tank Closed: | Not reported |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Fiberglass coated steel |
| Material Code: | 0008 |
| Common Name of Substance: | Diesel |

| | |
|---|---|
| Tightness Test Method: | NN |
| Date Test: | Not reported |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | AESKALSK |
| Last Modified: | 09/15/2017 |

Equipment Records:

A00 - Tank Internal Protection - None
I03 - Overfill - Automatic Shut-Off
F05 - Pipe External Protection - Jacketed
E04 - Piping Secondary Containment - Double walled UG
D11 - Pipe Type - Flexible Piping
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B04 - Tank External Protection - Fiberglass

**ENGINE 21 (Continued)** **U004192452**

K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
H05 - Tank Leak Detection - In-Tank System (ATG)

---

**A18** **JEFFERSON STREET DRUM** **SEMS-ARCHIVE** **1000984111**
**SSE** **INTERSECT. OF JEFFERSON & NO.HAMPTON ST.** **RCRA NonGen / NLR** **NY0001046143**
**< 1/8** **BUFFALO, NY 14208** **MANIFEST**
**0.028 mi.**
**146 ft.** **Site 14 of 15 in cluster A**

**Relative:**
**Higher**

**Actual:**
**641 ft.**

SEMS Archive:
Site ID: 203959
EPA ID: NY0001046143
Cong District: 30
FIPS Code: 36029
FF: N
NPL: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Archive Detail:
Region: 2
Site ID: 203959
EPA ID: NY0001046143
Site Name: JEFFERSON STREET DRUM
NPL: N
FF: N
OU: 0
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 2001-09-30 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 2
Site ID: 203959
EPA ID: NY0001046143
Site Name: JEFFERSON STREET DRUM
NPL: N
FF: N
OU: 0
Action Code: RV
Action Name: RMVL
SEQ: 1
Start Date: 1995-02-21 00:00:00
Finish Date: 1995-04-07 00:00:00
Qual: S
Current Action Lead: EPA Perf

Region: 2
Site ID: 203959
EPA ID: NY0001046143
Site Name: JEFFERSON STREET DRUM
NPL: N
FF: N
OU: 0
Action Code: AR

**JEFFERSON STREET DRUM (Continued)** **1000984111**

Action Name: ADMIN REC
SEQ: 1
Start Date: 1998-02-03 00:00:00
Finish Date: Not reported
Qual: V
Current Action Lead: EPA Perf

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: JEFFERSON AVENUE SITE
Facility address: 1184 JEFFERSON AVE
BUFFALO, NY 14208-0000
EPA ID: NY0001046143
Mailing address: 2890 WOODBRIDGE AVE
EDISON, NY 08837-3679
Contact: JACK HARMON
Contact address: 2890 WOODBRIDGE AVE
EDISON, NY 08837-3679
Contact country: US
Contact telephone: 908-906-6841
Telephone ext.: 9999
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: JEFFERSON AVENUE SITE
Classification: Not a generator, verified

Date form received by agency: 02/19/1996
Site name: JEFFERSON AVENUE SITE
Classification: Large Quantity Generator

Violation Status: No violations found

NY MANIFEST:

**JEFFERSON STREET DRUM (Continued)** **1000984111**

| | |
|---|---|
| Country: | USA |
| EPA ID: | NY0001046143 |
| Facility Status: | Not reported |
| Location Address 1: | 1184 JEFFERSON AVE |
| Code: | BP |
| Location Address 2: | Not reported |
| Total Tanks: | Not reported |
| Location City: | BUFFALO |
| Location State: | NY |
| Location Zip: | 14208 |
| Location Zip 4: | Not reported |

NY MANIFEST:

| | |
|---|---|
| EPAID: | NY0001046143 |
| Mailing Name: | U S EPA REGION II |
| Mailing Contact: | KEVIN MATHEIS |
| Mailing Address 1: | 2890 WOODBRIDGE AVE |
| Mailing Address 2: | Not reported |
| Mailing City: | EDISON |
| Mailing State: | NJ |
| Mailing Zip: | 08837 |
| Mailing Zip 4: | Not reported |
| Mailing Country: | USA |
| Mailing Phone: | 7168737281 |

NY MANIFEST:

| | |
|---|---|
| Document ID: | NYB6892731 |
| Manifest Status: | C |
| seq: | Not reported |
| Year: | 1995 |
| Trans1 State ID: | 80362VNY |
| Trans2 State ID: | Not reported |
| Generator Ship Date: | 04/07/1995 |
| Trans1 Recv Date: | 04/07/1995 |
| Trans2 Recv Date: | / / |
| TSD Site Recv Date: | 04/10/1995 |
| Part A Recv Date: | / / |
| Part B Recv Date: | 04/26/1995 |
| Generator EPA ID: | NY0001046143 |
| Trans1 EPA ID: | NYD982792814 |
| Trans2 EPA ID: | Not reported |
| TSDF ID 1: | OHD083377010 |
| TSDF ID 2: | Not reported |
| Manifest Tracking Number: | Not reported |
| Import Indicator: | Not reported |
| Export Indicator: | Not reported |
| Discr Quantity Indicator: | Not reported |
| Discr Type Indicator: | Not reported |
| Discr Residue Indicator: | Not reported |
| Discr Partial Reject Indicator: | Not reported |
| Discr Full Reject Indicator: | Not reported |
| Manifest Ref Number: | Not reported |
| Alt Facility RCRA ID: | Not reported |
| Alt Facility Sign Date: | Not reported |
| MGMT Method Type Code: | Not reported |
| Waste Code: | D001 - NON-LISTED IGNITABLE WASTES |
| Waste Code: | Not reported |

**JEFFERSON STREET DRUM (Continued)** **1000984111**

| | |
|---|---|
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Quantity: | 06000 |
| Units: | P - Pounds |
| Number of Containers: | 015 |
| Container Type: | DM - Metal drums, barrels |
| Handling Method: | B Incineration, heat recovery, burning. |
| Specific Gravity: | 100 |

Click this hyperlink while viewing on your computer to access
1 additional NY_MANIFEST: record(s) in the EDR Site Report.

---

**A19** **FOUR HOUR DRY CLNRS PLANT** **EDR Hist Cleaner** **1014535108**
**SE** **1185 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.029 mi.**
**153 ft.** **Site 15 of 15 in cluster A**

**Relative:** **Higher**

EDR Hist Cleaner

**Actual:** **641 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1946 | FOUR HOUR DRY CLNRS PLANT | CLEANERS AND DYERS |
| 1950 | FOUR HOUR CLEANERS LAUNDRY INC | CLEANERS AND DYERS |
| 1955 | FOUR HOUR CLEANERS LAUNDRY INC | CLEANERS AND DYERS |
| 1960 | BARTOWS ONE HOUR | CLEANERS AND DYERS |

---

**B20** **CONROY JOHN B SEWING MACH REPR** **EDR Hist Auto** **1014539498**
**North** **1246 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.046 mi.**
**243 ft.** **Site 4 of 4 in cluster B**

**Relative:** **Lower**

EDR Hist Auto

**Actual:** **638 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1946 | CONROY JOHN B SEWING MACH REPR | REPAIR SHOPS |

---

**D21** **BANKS AUTOMOTIVE SERVICE CENTER** **EDR Hist Auto** **1014537203**
**SSE** **1165 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.046 mi.**
**245 ft.** **Site 1 of 8 in cluster D**

**Relative:** **Higher**

EDR Hist Auto

**Actual:** **642 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1930 | BROOKE OLIVER L | GASOLINE AND OIL SERVICE STATIONS |
| 1973 | BANKS THEODORE R ENTERPRISES* | Gasoline Service Stations |
| 1974 | BANKS THEODORE R ENTERPRISES* | Gasoline Service Stations |
| 1975 | BANKS AUTOMOTIVE SERVICE CENTER | AUTOMOBILE REPAIRING |
| 1975 | BANKS THEODORE R ENTERPRISES* | Gasoline Service Stations |
| 1976 | BANKS THEODORE R ENTERPRISES* | Gasoline Service Stations |

**BANKS AUTOMOTIVE SERVICE CENTER (Continued)** **1014537203**

| | | |
|---|---|---|
| 1977 | BANKS THEODORE R ENTERPRISES* | General Automotive Repair Shops |
| 1978 | BANKS THEODORE R ENT INC | General Automotive Repair Shops |
| 1979 | BANKS THEODORE R ENT INC | General Automotive Repair Shops |

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**D22** **TANK IN RIGHT OF WAY** **NY Spills** **S103562499**
**SSE** **1165 JEFFERSON AVENUE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.046 mi.**
**245 ft.** **Site 2 of 8 in cluster D**

**Relative:**
**Higher**

**Actual:**
**642 ft.**

SPILLS:

| | |
|---|---|
| Facility ID: | 9012032 |
| Facility Type: | ER |
| Spill Number: | 9012032 |
| DER Facility ID: | 198046 |
| Site ID: | 240828 |
| DEC Region: | 9 |
| Closed Date: | 1993-04-16 |
| Spill Cause: | Other |
| Spill Class: | D3 |
| SWIS: | 1502 |
| Spill Date: | 1991-02-19 |
| Investigator: | SORGI |
| Referred To: | Not reported |
| Reported to Dept: | 1991-02-19 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Unknown |
| Spill Notifier: | Affected Persons |
| Cleanup Ceased: | 1993-04-16 |
| Cleanup Meets Std: | True |
| Last Inspection: | 1991-02-19 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1991-02-20 |
| Spill Record Last Update: | 2001-01-23 |
| Spiller Name: | Not reported |
| Spiller Company: | BRUCE PERPETUS |
| Spiller Address: | 4510 HEDGEWOOD DRIVE |
| Spiller Company: | 001 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MJS 02/19/91: MJS SITE INSPECTION WITH RNL. TRENCH IS IN RIGHT OF WAY. NEED TO FIND OWNER. 03/15/91: MJS MEETING WITH BRUCE PERPETUS. DISCUSSED WHAT WILL HAVE TO BE DONE. TANK MUST BE REMOVED AND SOIL DISPOSED OF. 07/01/91: MJS SENT LETTER TO MR PERPETUS REQUESTING STATUS REPORT. 07/22/91: MJS TELECON FROM MR PERPETUS. HE EXPLAINED THAT HE IS CURRENTLY GOING THROUGH PROCESS OF OBTAINING MONEY FROM NYS AND CITY OF BUFFALO FOR REFURBISHING PROPERTY. PLANS TO START WORK BY OCTOBER. 08/07/91: MJS RECEIVED LETTER FROM MR PERPETUS STATING THAT HE WILL BE RECEIVING MONIES FROM STATE AND FEDERAL GRANTS AND WILL HAVE WORK DONE AT THAT TIME. 03/16/92: MJS SENT LETTER TO BRUCE PERPETUS. DEC TO GO TO LEGAL ACTION IF WORK NO BEGUN BY 3/30/92. 03/16/92: MJS SDNET LETTER TO MR PERPETUS THREATENING LEGAL ACTION. 06/08/92: MJS SITE INSPECTION, NO ACTIVITY AT SITE. 07/21/92: MJS SENT LETTER TO BRUCE PERPETUS REQUESTING UPDATE OR LEGAL ACTION. 08/13/92: MJS RECEIVED LETTER AND DISPOSAL RECEIPT FOR |

**TANK IN RIGHT OF WAY (Continued)** **S103562499**

Remarks: TANK CONTENTS. 04/16/93: MJS REVIEW FILE. TANK REMOVED. NO FURTHER ACTION REQUIRED. FILE CLOSED. *****PAPER FILE NO LONGER EXISTS*****" "NATIONAL FUEL GAS WAS DIGGING A TRENCH AND FOUND CONTAMINATION. OLD STORAGE TANK APPROX 15 FEET AWAY. SUSPECT TANK LEAKAGE."

All Materials:

| | |
|---|---|
| Site ID: | 240828 |
| Operable Unit ID: | 949053 |
| Operable Unit: | 01 |
| Material ID: | 428541 |
| Material Code: | 0066A |
| Material Name: | unknown petroleum |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

---

**C23** **LEE WINLZ LNDV** **EDR Hist Cleaner** **1014535984**
**NNE** **1247 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.052 mi.**
**276 ft.** **Site 2 of 2 in cluster C**

**Relative:** EDR Hist Cleaner
**Lower**

| Year: | Name: | Type: |
|---|---|---|
| 1930 | LEE WINLZ LNDV | LAUNDRIES - CHINESE |

**Actual:**
**638 ft.**

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**D24** **WASTE OIL DUMPING** **NY Spills** **S102178546**
**ESE** **371 NORTHAMPTON** **N/A**
**< 1/8** **BUFFALO, NY**
**0.053 mi.**
**281 ft.** **Site 3 of 8 in cluster D**

**Relative:** SPILLS:
**Higher**

| | |
|---|---|
| Facility ID: | 9401612 |
| Facility Type: | ER |
| Spill Number: | 9401612 |
| DER Facility ID: | 209810 |
| Site ID: | 256191 |
| DEC Region: | 9 |
| Closed Date: | 1994-05-06 |
| Spill Cause: | Deliberate |
| Spill Class: | D6 |
| SWIS: | 1502 |
| Spill Date: | 1994-04-01 |
| Investigator: | COOKE |
| Referred To: | Not reported |
| Reported to Dept: | 1994-04-28 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Private Dwelling |
| Spill Notifier: | Citizen |
| Cleanup Ceased: | 1994-05-06 |

**Actual:**
**642 ft.**

**WASTE OIL DUMPING (Continued)** **S102178546**

| | |
|---|---|
| Cleanup Meets Std: | True |
| Last Inspection: | 1994-05-05 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1994-05-04 |
| Spill Record Last Update: | 1994-05-09 |
| Spiller Name: | Not reported |
| Spiller Company: | UNKNOWN |
| Spiller Address: | Not reported |
| Spiller Company: | 999 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was JDC 05/05/94: JDC/SITE - MINOR OIL SPILLAGE IN VACANT LOT. ALL WASTE OIL COLLECTED IN 55-GAL. DRUMS AT COLD SPRINGS TAXI & PERIODICALLY PUMPED OF BY BISON WASTE OIL. 05/06/94: JDC/ROY THOMAS, COLD SPRINGS OWNER/TELECON - ADVISED HIM OF WASTE OIL PROHIBITIONS AND PROPER DISPOSAL REQUIREMENTS. HE CONFIRMED WASTE OIL DISPOSED BY BISON. NO FURTHER ACTION REQUIRED. " |
| Remarks: | "GARAGE ALLEGEDLY DUMPING WASTE OIL IN VACANT LOT" |

All Materials:

| | |
|---|---|
| Site ID: | 256191 |
| Operable Unit ID: | 998829 |
| Operable Unit: | 01 |
| Material ID: | 385362 |
| Material Code: | 0022 |
| Material Name: | waste oil/used oil |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | Not reported |
| Recovered: | .00 |
| Oxygenate: | Not reported |

| | |
|---|---|
| Facility ID: | 9401615 |
| Facility Type: | ER |
| Spill Number: | 9401615 |
| DER Facility ID: | 209810 |
| Site ID: | 256192 |
| DEC Region: | 9 |
| Closed Date: | 1994-05-04 |
| Spill Cause: | Deliberate |
| Spill Class: | D6 |
| SWIS: | 1502 |
| Spill Date: | 1994-04-01 |
| Investigator: | COOKE |
| Referred To: | Not reported |
| Reported to Dept: | 1994-04-28 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Private Dwelling |
| Spill Notifier: | Citizen |
| Cleanup Ceased: | 1994-05-04 |
| Cleanup Meets Std: | True |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |

**WASTE OIL DUMPING (Continued)** **S102178546**

| | |
|---|---|
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1994-05-04 |
| Spill Record Last Update: | 1994-05-27 |
| Spiller Name: | Not reported |
| Spiller Company: | UNKNOWN |
| Spiller Address: | Not reported |
| Spiller Company: | 999 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was JDC 05/04/94: ******DUPLICATE OF SPILL #9401612 - REFER TO THAT NUMBER*****. " |
| Remarks: | "*****DUPLICATE OF SPILL #9401612 - REFER TO THAT NUMBER******" |

All Materials:

| | |
|---|---|
| Site ID: | 256192 |
| Operable Unit ID: | 998832 |
| Operable Unit: | 01 |
| Material ID: | 385365 |
| Material Code: | 0022 |
| Material Name: | waste oil/used oil |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | Not reported |
| Recovered: | .00 |
| Oxygenate: | Not reported |

---

**D25** **BROWNIES NORTHAMPTON GARAGE INC** **EDR Hist Auto** **1014538004**
**ESE** **371 NORTHAMPTON ST** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.053 mi.**
**281 ft.** **Site 4 of 8 in cluster D**

**Relative:** **Higher**

**Actual:** **642 ft.**

EDR Hist Auto

| Year: | Name: | Type: |
|---|---|---|
| 1970 | BROWNS NORTHAMPTON STREET GARAG | AUTOMOBILE REPAIRING |
| 1975 | BROWNIES NORTHAMPTON GARAGE INC | AUTOMOBILE REPAIRING |
| 1980 | BROWNIES NORTHAMPTON GARAGE INC | AUTOMOBILE REPAIRING |
| 1991 | JOHNSONS NORTHHAMPTON GARAGE | General Automotive Repair Shops |

---

**E26** **WILLSEY LAUNDRY INC G FRANK SHERWIN PRES WM T WH** **EDR Hist Cleaner** **1014535831**
**West** **300 NORTHAMPTON PHONE FILL** **N/A**
**< 1/8** **BUFFALO, NY**
**0.059 mi.**
**314 ft.** **Site 1 of 2 in cluster E**

**Relative:** **Lower**

**Actual:** **639 ft.**

EDR Hist Cleaner

| Year: | Name: | Type: |
|---|---|---|
| 1925 | WILLSEY LAUNDRY INC G FRANK SH | LAUNDRIES |

**E27**
**West**
**< 1/8**
**0.059 mi.**
**314 ft.**

**BUFFALO INDUSTRIAL**
**300 NORTHAMPTON AVENUE**
**BUFFALO, NY**

**Site 2 of 2 in cluster E**

**NY Spills** **S102245107**
**N/A**

**Relative:**
**Lower**

**Actual:**
**639 ft.**

SPILLS:

| | |
|---|---|
| Facility ID: | 9513812 |
| Facility Type: | ER |
| Spill Number: | 9513812 |
| DER Facility ID: | 250755 |
| Site ID: | 310654 |
| DEC Region: | 9 |
| Closed Date: | 1996-01-27 |
| Spill Cause: | Deliberate |
| Spill Class: | E6 |
| SWIS: | 1502 |
| Spill Date: | 1996-01-01 |
| Investigator: | RMCROSSE |
| Referred To: | Not reported |
| Reported to Dept: | 1996-01-27 |
| CID: | 233 |
| Water Affected: | Not reported |
| Spill Source: | Commercial/Industrial |
| Spill Notifier: | Citizen |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | True |
| Last Inspection: | 1996-01-27 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1996-01-30 |
| Spill Record Last Update: | 1996-02-15 |
| Spiller Name: | Not reported |
| Spiller Company: | NONE |
| Spiller Address: | Not reported |
| Spiller Company: | 999 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was RMC 01/29/96 RMC/SITE COULD NOT LOCATE ANY DISCHARGE TO THE SURFACE OR EVIDENCE OF PAST DISCHARGE FROM FACILITY, SAC REFERED TO BUFFALO SEWER WHO HAS RESPONSIBILITY FOR SITE UNDER SEWER USE ORDINANCE, NO ACTION BY DEC REQUIRED, CLOSE OUT " |
| Remarks: | "deliberate dumping of laundry solutions to pavement faxed from region 9 " |

All Materials:

| | |
|---|---|
| Site ID: | 310654 |
| Operable Unit ID: | 1024653 |
| Operable Unit: | 01 |
| Material ID: | 357519 |
| Material Code: | 1182A |
| Material Name: | laundry soap |
| Case No.: | Not reported |
| Material FA: | Other |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

**F28** **DREWS JOHN J SERVICE STATION** **EDR Hist Auto** **1014539191**
**North** **1256 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.060 mi.**
**316 ft.** **Site 1 of 7 in cluster F**

**Relative:** EDR Hist Auto
**Lower**

**Actual:** **638 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1925 | DREWS JOHN J SERVICE STATION | FILLING STATIONS |
| 1930 | HERRMANN HENRY GAS SERVICE | GASOLINE AND OIL SERVICE STATIONS |
| 1935 | HERRMANN HENRY FILLING STA | GASOLINE AND OIL SERVICE STATIONS |
| 1940 | HERRMANN EMIL FILLING STA | GASOLINE AND OIL SERVICE STATIONS |
| 1946 | HERRMANN EMIL FILLING STA | GASOLINE AND OIL SERVICE STATIONS |
| 1950 | HERRMANN EMIL FILLING STA | GASOLINE STATIONS |
| 1955 | HERNNANN EMIL E GAS STA | GASOLINE STATIONS |

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**D29** **KAR BAKE CORP AUTO REPRO** **EDR Hist Auto** **1014539258**
**SSE** **1159 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.064 mi.**
**340 ft.** **Site 5 of 8 in cluster D**

**Relative:** EDR Hist Auto
**Higher**

**Actual:** **644 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1946 | KAR BAKE CORP AUTO REPRS | AUTOMOBILE REPAIRING |
| 1946 | KAR BAKE CORP AUTO REPRS | AUTOMOBILE GARAGES |
| 1950 | KAR BAKE CORP AUTO REPRO | AUTOMOBILE GARAGES |
| 1950 | KAR MOTORS INC AUTO DLRS | AUTOMOBILE REPAIRING |
| 1955 | KAR MOTOR REBUILDERS INC AUTO R | AUTOMOBILE REPAIRING |
| 1960 | KAR MOTOR REBUILDERS INC AUTO R | AUTOMOBILE REPAIRING |
| 1964 | KAR MOTOR REBUILDERS INC AUTO R | AUTOMOBILE REPAIRING |
| 1970 | KAR MOTOR REBUILDERS INC AUTO R | AUTOMOBILE REPAIRING |
| 1975 | KAR MOTOR REBUILDERS INC BR AUT | AUTOMOBILE REPAIRING |
| 1987 | BANKS TED AUTO SERVICE INC | Vocational Schools, NEC |

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**F30** **SCHROEDER JOHN F AUTO REPR** **EDR Hist Auto** **1014537130**
**North** **349 RILEY ST** **N/A**
**< 1/8** **BUFFALO, NY**
**0.067 mi.**
**352 ft.** **Site 2 of 7 in cluster F**

**Relative:** EDR Hist Auto
**Lower**

**Actual:** **638 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1950 | SCHROEDER JOHN F AUTO REPR | AUTOMOBILE REPAIRING |

**D31**
**South**
**< 1/8**
**0.073 mi.**
**386 ft.**

**JEFFERSON AVENUE APARTMENTS**
**1140 & 1162 JEFFERSON AVENUE**
**BUFFALO, NY 14208**

**Site 6 of 8 in cluster D**

**BROWNFIELDS** **S120706212**
**N/A**

**Relative:**
**Higher**

**Actual:**
**645 ft.**

BROWNFIELDS:

| | |
|---|---|
| Program: | BCP |
| Site Code: | 543314 |
| Acres: | 1.57 |
| HW Code: | C915317 |
| SWIS: | 1502 |
| Town: | Buffalo (c) |
| Record Added Date: | 03/23/2017 |
| Record Updated Date: | 05/02/2017 |
| Update By: | LSZINOMA |
| Site Description: | LOCATION As previously indicated, the Site includes two (2) parcels and is located a highly developed residential and commercial area of the City of Buffalo, Erie County, New York. The Site is bordered by Northampton Street to the north, Dodge Street to the south, residential properties to the west, and Jefferson Avenue to the east. Southampton Street bisects the Site. Adjacent property owners are identified on Figure 9. SITE FEATURES The Site is currently unoccupied and includes vacant land and two (2) vacant buildings on the northern parcel (see Figure 2). The first building was historically used for automotive repair and the second was used residentially and commercially (i.e., storefronts). CURRENT ZONING AND LAND USE The current zoning for the Jefferson Avenue Apartments Site is classified as C2 Community Business District by the City of Buffalo GIS Property Viewer (see Figure 10). The surrounding areas to the north, east, and south are zoned as C2 Community Business District and R2 Dwelling District, while the surrounding areas to the west are zoned as R2 Dwelling District. According to the Buffalo Green Code Land Use Plan (see Figure 11), the anticipated land use for the Site is primarily classified as Urban Neighborhood (N-3). Urban Neighborhoods are described as transitional areas located at the edges of more intense mixed-use centers. Planned reuse of the site as a mixed-use residential/commercial development is consistent with current and anticipated future zoning. The City of Buffalo has identified redevelopment of the subject neighborhood as a critical step toward its revitalization efforts and fully supports the proposed project. PAST USE OF THE SITE Beginning in at least 1893 until the 2000s, past uses on the Site include residential as well as a variety of commercial operations with two historic automotive repair operations, a dealership service department, a trucking operation, paints and varnish/oils operations, sheet metal works, a machine shop operations. Fill materials located across the Site are impacted with PAHs and/or metals at concentrations exceeding Part 375 SCOs (see Figure 6). Grossly impacted soils, characterized by solvent odors and elevated PID readings, were also identified during an October 2016 Phase II investigation. Storage and use of hazardous/regulated substances associated with the aforementioned historic operations on-Site have resulted in impacts to the environment. In addition, the discovery of an abandoned 2,000-gallon UST encountered while excavating for a buried water line, related to NYSDEC Spill No. 1304558, leaves potential for unknown remaining orphan USTs on-Site. Due to the history of automotive repair, there is the potential for in-ground lifts, floor drains, stored hazardous/regulated materials, etc. within the northern-most existing |

**JEFFERSON AVENUE APARTMENTS (Continued)** **S120706212**

building. SITE GEOLOGY AND HYDROLOGY The Site is located within the Erie-Ontario lake plain physiographic province, which is typified by little topographic relief and gentle slope toward Lake Erie, except in the immediate vicinity of major drainage ways. The surficial geology of the Lake Erie Plain consists of a thin glacial till (if present), glaciolacustrine deposits, recent alluvium, and the soils derived from these deposits. The United States Department of Agriculture (USDA) Web soil survey indicates that approximately 50% of the Site consists of Urban land Claverack Complex (Uk), 40% of the Site consists of Urban land Schohaire Complex (Uu), and 10% of the Site consists of Urban land (Ud). The urban land Schohaire complex (Uu) material and urban land Claverack complex (Uk) material are characterized as areas of urban land with a slope ranging from 0 to 3 percent, moderately well drained, with a depth of more than 80 inches to restrictive features. Urban land (Ud) is characterized with level to gently sloping land in which 80 percent or more of the soil surface is covered by asphalt, concrete, buildings, or other impervious structures, typical of an urban environment (see Figure 12). Benchmark s subsurface investigation, which generally extended to depths of 12 fbgs, characterized the overburden soil/fill generally as non-native fill overlaying native lean clay or combinations of clay and sandy soils. Suspected non-native fill materials consisting of black fines, silt, sand, ash/cinders, slag, brick/wood fragments and/or gravel were found at depths ranging between 1 fbgs and 4.5 fbgs. A previous subsurface investigation completed by others identified similar fill materials across the Site. The fill material generally averages approximately 3 fbgs across the Site. Groundwater flow is likely to the west toward Lake Erie/Niagara River or north toward Scajaquada Creek. Local groundwater flow, however, may be influenced by subsurface features, such as excavations, utilities, and localized fill-conditions. Groundwater was encountered during drilling at depths ranging between approximately 8 fbgs and 11 fbgs at select boring locations.

| | |
|---|---|
| Env Problem: | Information submitted with the BCP application regarding the environmental condition at the site are currently under review and will be revised as additional information becomes available. |
| Health Problem: | Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available. |
| Dump: | Not reported |
| Structure: | Not reported |
| Lagoon: | Not reported |
| Landfill: | Not reported |
| Pond: | Not reported |
| Disp Start: | Not reported |
| Disp Term: | Not reported |
| Lat/Long: | Not reported |
| Dell: | Not reported |
| Record Add: | Not reported |
| Record Upd: | Not reported |
| Updated By: | Not reported |
| Own Op: | Owner |
| Sub Type: | E |
| Owner Name: | Not reported |
| Owner Company: | 1200 Jefferson Properties LLC |
| Owner Address: | 617 Main Street, Suite 200 |
| Owner Addr2: | Not reported |

**JEFFERSON AVENUE APARTMENTS (Continued)** **S120706212**

| | |
|---|---|
| Owner City,St,Zip: | Buffalo, NY 14203 |
| Owner Country: | United States of America |
| Own Op: | Document Repository |
| Sub Type: | NNN |
| Owner Name: | Mary Jean Jakubowski |
| Owner Company: | Buffalo & Erie County Public Library |
| Owner Address: | 1 Lafayette Square |
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | Buffalo, NY 14203 |
| Owner Country: | United States of America |
| Own Op: | Applicant/Requestor |
| Sub Type: | P03 |
| Owner Name: | Jocelyn Bos |
| Owner Company: | Jefferson Avenue GP LLC and Jefferson Avenue Apartments L.P. |
| Owner Address: | 1219 North Forest Road |
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | Williamsville, NY 14231-9033 |
| Owner Country: | United States of America |
| Own Op: | Owner |
| Sub Type: | E |
| Owner Name: | Not reported |
| Owner Company: | 6350 Group LLC |
| Owner Address: | 617 Main Street, Suite 200 |
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | Buffalo, NY 14203 |
| Owner Country: | United States of America |
| Own Op: | Applicant/Requestor |
| Sub Type: | P03 |
| Owner Name: | Rhonda Frederick |
| Owner Company: | Jefferson Avenue GP LLC and Jefferson Avenue Apartments L.P. |
| Owner Address: | 1219 North Forest Road |
| Owner Addr2: | PO Box 9033 |
| Owner City,St,Zip: | Williamsville, NY 14231 |
| Owner Country: | United States of America |
| Own Op: | Owner |
| Sub Type: | NNN |
| Owner Name: | Not reported |
| Owner Company: | City of Buffalo Perfecting Title |
| Owner Address: | 65 Niagara Square |
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | Buffalo, NY 14202 |
| Owner Country: | United States of America |
| HW Code: | Not reported |
| Waste Type: | Not reported |
| Waste Quantity: | Not reported |
| Waste Code: | Not reported |
| Crossref ID: | Not reported |
| Cross Ref Type Code: | Not reported |
| Cross Ref Type: | Not reported |
| Record Added Date: | Not reported |
| Record Updated: | Not reported |
| Updated By: | Not reported |

**D32** **MERGLER THEO F REPR SHOP** **EDR Hist Auto** **1014538582**
**South** **1152 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.081 mi.**
**427 ft.** **Site 7 of 8 in cluster D**

**Relative:** EDR Hist Auto
**Higher**

| Year: | Name: | Type: |
|---|---|---|
| 1935 | MERGLER THEO F REPR SHOP | REPAIR SHOPS |

**Actual:**
**645 ft.**

---

**D33** **MEEKS AUTO REPAIR** **EDR Hist Auto** **1014539696**
**SSE** **1145 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.092 mi.**
**484 ft.** **Site 8 of 8 in cluster D**

**Relative:** EDR Hist Auto
**Higher**

| Year: | Name: | Type: |
|---|---|---|
| 1970 | MEEKS AUTO REPAIR | AUTOMOBILE REPAIRING |

**Actual:**
**646 ft.**

---

**F34** **PERRYS THREE HOUR CLEANERS** **EDR Hist Cleaner** **1014536024**
**NNE** **1271 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.096 mi.**
**508 ft.** **Site 3 of 7 in cluster F**

**Relative:** EDR Hist Cleaner
**Lower**

| Year: | Name: | Type: |
|---|---|---|
| 1964 | PERRYS 3 HOUR CLNS | CLEANERS AND DYERS |
| 1970 | PERRYS THREE HOUR CLEANERS | CLEANERS AND DYERS |
| 1975 | PERRYS THREE HOUR CLEANERS | CLEANERS AND DYERS |

**Actual:**
**637 ft.**

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**35** **GAS COMPANY** **NY Spills** **S108637415**
**WNW** **153 EATON ST** **N/A**
**< 1/8** **BUFFALO, NY**
**0.098 mi.**
**517 ft.**

**Relative:** SPILLS:
**Lower**

| | |
|---|---|
| Facility ID: | 0702174 |
| Facility Type: | ER |
| Spill Number: | 0702174 |
| DER Facility ID: | 331253 |
| Site ID: | 381846 |
| DEC Region: | 9 |
| Closed Date: | 2007-05-24 |
| Spill Cause: | Unknown |
| Spill Class: | E6 |
| SWIS: | 1502 |
| Spill Date: | 2007-05-22 |
| Investigator: | jfotto |
| Referred To: | Not reported |
| Reported to Dept: | 2007-05-22 |
| CID: | 27 |

**Actual:**
**639 ft.**

**GAS COMPANY (Continued)** **S108637415**

| | |
|---|---|
| Water Affected: | Not reported |
| Spill Source: | Unknown |
| Spill Notifier: | Other |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | True |
| Last Inspection: | 2007-05-23 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2007-05-23 |
| Spill Record Last Update: | 2007-05-24 |
| Spiller Name: | Not reported |
| Spiller Company: | UNKNOWN |
| Spiller Address: | Not reported |
| Spiller Company: | 999 |
| Contact Name: | MILLETE FOXWORTH |
| DEC Memo: | "05/23/07 JFO ON SITE NOA. THE HOUSE IS VACANT AND A LOT OF DEBRIS WAS PLACED AT THE CURB. THERE IS NO SPILL IN THE AREA. NO ACTION NECESSARY BY SPILLS. CLOSED" |
| Remarks: | "Caller reports spill in in the street. No further information is known." |

All Materials:

| | |
|---|---|
| Site ID: | 381846 |
| Operable Unit ID: | 1139271 |
| Operable Unit: | 01 |
| Material ID: | 2129291 |
| Material Code: | 0009 |
| Material Name: | gasoline |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | Not reported |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

| | |
|---|---|
| Facility ID: | 0800797 |
| Facility Type: | ER |
| Spill Number: | 0800797 |
| DER Facility ID: | 331253 |
| Site ID: | 396611 |
| DEC Region: | 9 |
| Closed Date: | 2008-04-21 |
| Spill Cause: | Unknown |
| Spill Class: | E6 |
| SWIS: | 1502 |
| Spill Date: | 2008-04-19 |
| Investigator: | jfotto |
| Referred To: | DIVISION OF AIR |
| Reported to Dept: | 2008-04-19 |
| CID: | 71 |
| Water Affected: | Not reported |
| Spill Source: | Unknown |
| Spill Notifier: | Citizen |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | True |
| Last Inspection: | Not reported |

**GAS COMPANY (Continued)** **S108637415**

| | |
|---|---|
| Recommended Penalty: | False |
| UST Trust: | Not reported |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2008-04-19 |
| Spill Record Last Update: | 2008-04-23 |
| Spiller Name: | Not reported |
| Spiller Company: | UNKNOWN |
| Spiller Address: | Not reported |
| Spiller Company: | 999 |
| Contact Name: | Not reported |
| DEC Memo: | "no action required by spills. referred to the division of air. closed electronic file" |
| Remarks: | "ODOR IN AIR SINCE 2001 " |

All Materials:

| | |
|---|---|
| Site ID: | 396611 |
| Operable Unit ID: | 1153583 |
| Operable Unit: | 01 |
| Material ID: | 2144350 |
| Material Code: | 0054A |
| Material Name: | natural gas |
| Case No.: | Not reported |
| Material FA: | Other |
| Quantity: | Not reported |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

---

**G36** **HARPERS AUTO SERVICE AUTO** **EDR Hist Auto** **1014537379**
**SSE** **1137 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.101 mi.**
**535 ft.** **Site 1 of 8 in cluster G**

**Relative:** **Higher**

EDR Hist Auto

**Actual:** **647 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1991 | HARPERS AUTO SERVICE | General Automotive Repair Shops |
| 1992 | HARPERS AUTO SERVICE INC | AUTOMOBILE REPAIRING & SERVICE |
| 1992 | HARPERS AUTO SERVICE | General Automotive Repair Shops |
| 1993 | HARPERS AUTO SERVICE | General Automotive Repair Shops |
| 1994 | HARPERS AUTO SERVICE | General Automotive Repair Shops |
| 1995 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 1996 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 1997 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 1998 | HARPERS AUTO SERVICE AUTO | AUTOMOBILE REPAIRING & SERVICE |
| 1998 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 1999 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2000 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2001 | HARPERS AUTO SERVICE GENL AUTO | AUTOMOBILE REPAIRING & SERVICE |
| 2001 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2002 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2003 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2004 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2005 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2006 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2007 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |

**HARPERS AUTO SERVICE AUTO (Continued)** **1014537379**

| | | |
|---|---|---|
| 2008 | HARPERS AUTO SVC AUTO RPR | AUTOMOBILE REPAIRING & SERVICE |
| 2008 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2009 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2010 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |
| 2011 | HARPERS AUTO SERVICE INC | General Automotive Repair Shops |

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**F37** **COIN OPERATED LAUNDRY** **EDR Hist Cleaner** **1014536138**
**NNE** **1275 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.103 mi.**
**544 ft.** **Site 4 of 7 in cluster F**

**Relative:** EDR Hist Cleaner
**Lower**

| Year: | Name: | Type: |
|---|---|---|
| 1970 | COIN OPERATED LAUNDRY | LAUNDRIES - SELF SERVE |

**Actual:**
**637 ft.**

---

**F38** **LEONS SUNOCO** **LTANKS** **U003316873**
**North** **1270 JEFFERSON AVE** **UST** **N/A**
**< 1/8** **BUFFALO, NY 14208** **NY Spills**
**0.103 mi.**
**545 ft.** **Site 5 of 7 in cluster F**

**Relative:** LTANKS:
**Lower**

| | |
|---|---|
| Facility ID: | 8709895 |
| Site ID: | 67998 |
| Closed Date: | 1988-06-16 |
| Spill Number: | 8709895 |
| Spill Date: | 1988-02-23 |
| Spill Cause: | Tank Test Failure |
| Spill Source: | Gasoline Station or other PBS Facility |
| Spill Class: | Not reported |
| Cleanup Ceased: | 1988-06-16 |
| SWIS: | 1502 |
| Investigator: | MXFRANKS |
| Referred To: | Not reported |
| Reported to Dept: | 1988-02-23 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Police Department |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | True |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1988-02-24 |
| Spill Record Last Update: | 1988-06-28 |
| Spiller Name: | Not reported |
| Spiller Company: | LEON SEREDAY |
| Spiller Address: | 905 ELMWOOD AVENUE |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 64898 |

**Actual:**
**638 ft.**

**LEONS SUNOCO (Continued)** **U003316873**

DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MF 02/24/88: MF TO INVESTIGATE. 02/24/88: MF TELECON LEON SEREDAY, 4K TANK TO BE RETESTED THIS WEEK. THE 2-3K TANKS ARE PUMPED OF ALL PRODUCT, I GAVE HIM 30 DAYS TO RETEST OR REMOVE TANKS. 02/26/88: MF TELECON LEON THE 2-3K MANIFOLED TANKS ARE EMPTY, THE 4K TANK HAD PUMP LEAK REPAIRED. I TOLD HIM IF 4K TANK ISN'T RETESTED WITHIN A WEEK ALL PRODUCT MUST BE EMPTIED. HE WILL CALL WITH RETEST DATE. 03/01/88: MF TELECON LEON, 3K TANKS EMPTIED, 4K TANK STILL IN SERVICE (NO RETEST DATE AS YET), SENT HIM A LETTER TO REMOVE ALL PRODUCT FROM TANKS, & TO REMOVE TANKS IF NOT RETESTED BY 4/10/88. 03/08/88: MF TELECON LEON. TANK IN QUESTION WAS RETESTED 3/5/88 THE RESULTS WERE INCONCLUSIVE (?). I CALLED TANK TESTER (BRUCE CORNELL), HE CLAIMED AN AIR POCKET. I TOLD HIM THIS IS A FAILURE. 03/18/88: MF TELECON LEON, TANKS BEING DUG UP TODAY & WILL BE RETESTED NEXT WEEK. 04/25/88: MF TELECON LEON, ALL TANKS PASSED RETEST, HE WILL SEND ME REPORTS. 05/11/88: MF LETTER SENT TO LEON FOR RETEST RESULTS. 05/26/88: MF TELECON LEON, HE CLAIMED STEVE CORNELL TOLD HIM THAT THE RETEST RESULTS WERE SENT TO ME LAST WEEK. 06/07/88: MF TELECON LEON & STEVE (CERTIFIED TANK), ANOTHER REPORT WILL BE SENT TO ME. 06/16/88: MF RECEIVED RETEST RESULTS, ALL TANKS PASSED. "

Remarks: "TWO 3K MANIFOLED TANKS FAILED TANK TEST -.5873, TO BE ABANDON. ONE 4K TANK FAILURE RATE -.9053 TO BE REPAIRED."

All TTF:

| | |
|---|---|
| Facility ID: | 8709895 |
| Spill Number: | 8709895 |
| Spill Tank Test: | 1533305 |
| Site ID: | 67998 |
| Tank Number: | Not reported |
| Tank Size: | 0 |
| Material: | 0009 |
| EPA UST: | Not reported |
| UST: | Not reported |
| Cause: | Not reported |
| Source: | Not reported |
| Test Method: | 00 |
| Test Method 2: | Unknown |
| Leak Rate: | .00 |
| Gross Fail: | Not reported |
| Modified By: | Spills |
| Last Modified Date: | Not reported |

All Materials:

| | |
|---|---|
| Site ID: | 67998 |
| Operable Unit ID: | 915324 |
| Operable Unit: | 01 |
| Material ID: | 461687 |
| Material Code: | 0009 |
| Material Name: | gasoline |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

**LEONS SUNOCO (Continued)** **U003316873**

| | |
|---|---|
| Facility ID: | 9201141 |
| Site ID: | 67999 |
| Closed Date: | 2007-05-30 |
| Spill Number: | 9201141 |
| Spill Date: | 1992-04-28 |
| Spill Cause: | Tank Test Failure |
| Spill Source: | Gasoline Station or other PBS Facility |
| Spill Class: | B3 |
| Cleanup Ceased: | Not reported |
| SWIS: | 1502 |
| Investigator: | FXGALLEG |
| Referred To: | Not reported |
| Reported to Dept: | 1992-04-28 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Tank Tester |
| Last Inspection: | 2006-06-08 |
| Recommended Penalty: | True |
| Meets Standard: | False |
| UST Involvement: | True |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1992-05-12 |
| Spill Record Last Update: | 2007-05-30 |
| Spiller Name: | Not reported |
| Spiller Company: | LEON SEREDAY |
| Spiller Address: | 905 ELMWOOD AVENUE |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 64898 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was FG 5/4/92 MNP TELECON WITH LEON SEREDAY. TANKS TO BE ISOLATED AND RETESTED BY 5/8/92. HE WILL CALL WITH RESULTS AND SEND COPY. 5/7/92 RECEIVED 5/5/92 TIGHTNESS TEST RESULTS FROM CERTIFIED TANK TESTING. THE 3000 AND 4000 GALLON GAS UST'S (TANKS 001 & 002) FAILED THE TEST. THE OTHER 3000 AND THE 6000 GALLON GAS UST'S (TANKS 003 & 004) PASSED. 5/11/92 MNP TELECON WITH BRUCE CORNELL CERTIFIED TANK TESTING RETESTING TANKS #001 & 002. TANKS HAVE VALVE ON MANIFOLD. TANK 002 JUST FAILED SYSTEM RETEST. TESTING #001 NOW. 05/11/92: 5/11/92 MNP TELECON W/SEREDAY TANK #002 FAILED SYSTEM RETEST, TANK #001 BEING TESTED NOW. HE WILL CALL BACK WITH RESULTS & DECISION WHETHER TO RETEST OR PULL TANKS. 5/12/92 DEC LETTER SENT TO MR. SEREDAY STATING THAT UST'S CAN BE RETESTED AND IF THEY FAIL, THE TANKS MUST BE REMOVED AND A SAMPLE COLLECTED IN THE EXCAVATION. 5/15/92 TIGHTNESS RETEST RESULTS SUBMITTED BY CERTIFIED TANK TESTING. BOTH TANKS FAILED. 06/01/92: 6/1/92 MNP TELECON W/SEREDAY. HALES MAINTENANCE TO UNCOVER TANK FOR ISOLATION TEST THIS WEEK. NO ARRANGEMENT MADE FOR RETEST. I TOLD HIM TANK MUST BE TESTED ASAP WITHIN 1 TO 2 DAYS OF ISOLATION. PRODUCT REMAINS IN TANK, TANK NOT BEING USED. NO LOSS IN DAILY STICK READINGS. I ASKED HIM TO CALL ME WHEN TANK IS UNCOVERED SO I CAN INSPECT EXCAVATION. 9/21/92 DEC LETTER SENT TO MR. SEREDAY REQUESTING A RESPONSE TO THE 5/12/92 LETTER SENT. RESPONSE DUE 9/25/92. 10/15/92 LETTER FROM MR. SEREDAY SUBMITTING TANK CLOSURE REPORT FORM FOR THE 3000 & 4000 GALLON GAS UST REMOVALS FOR 10/16/92. 10/16/92 LETTER FROM MR. SEREDAY STATING THAT HE WENT TO 1270 |

**LEONS SUNOCO (Continued)** **U003316873**

JEFFERSON TO CHECK ON PROGRESS. HE SAID THERE ARE MEN AND EQUIPMENT ON SITE. THEY DO PLAN ON PULLING TANKS OUT AND HAVE A TANKER TO PUMP OUT WATER IN TANK BOTTOMS. 10/19/92 MNP INSPECTION. TWO FAILED TANKS REMOVED. ONE 3000 AND ONE 4000 GALLON TANK. BROWN AND BLACK PRODUCT AND SHEEN ON WATER IN EXCAVATION. PILE OF CONTAMINATED SOIL ON PLASTIC UNCOVERED. CONTAMINATION REMAINS IN EXCAVATION. OTHER TWO TANKS REMAIN. GAS PUMPS NOT IN SERVICE. MORE CLEANUP NEEDED. OTHER TANKS MAY HAVE TO BE REMOVED TO COMPLETE CLEANUP. SEREDAY TO BE CONTACTED. 10/26/92 MNP TELECON WITH SEREDAY. HE EMPTIED OTHER TWO TANKS ALREADY AND PLANS TO PULL WHEN NEW TANKS HE ORDERED ARRIVE. I TOLD OK, BUT TANK PULL AND CLEANUP MUST BE DONE WITHIN TWO WEEKS. 01/28/93: 1/28/93 MNP TELECON, SEREDAY NOT IN, LEFT MESSAGE RETURN CALL. 1/29/93 DEC LETTER SENT TO MR. SEREDAY STATING THAT TANKS MUST BE REMOVED BY 2/19/93 AND DEC MUST BE NOTIFIED. TANKS MUST BE EMPTIED, REMOVED, CUT OPEN, CLEANED OUT. LIQUIDS IN TANKS MUST BE PROPERLY DISPOSED. WATERS FROM THE EXCAVATION AND FROM THE TANKS MUST BE ANALYZED FOR BTEX. YOU MAY DISCHARGE THE WATERS TO THE BUFFALO SEWER AUTHORITY WITH THEIR APPROVAL OR TREAT ON SITE WITH CARBON. EXCAVATION SAMPLING IS ALSO REQUIRED FOR 8021 + MTBE. CONTACT THIS OFFICE WHEN THERE IS A FIRM DATE FOR REMOVAL - WE MUST CHECK THE EXCAVATION. IF THERE IS GROUNDWATER OR SOIL CONTAMINATION, FURTHER REMEDIATION WILL BE REQUIRED. 04/28/93: MNP TELECON W/ SEREDAY. OTHER 2 TANKS NOT REMOVED, EXCAVATION STILL OPEN. HE EXPECTS NEW TANKS SOON. SOIL PILE ON SITE. SEREDAY WARNED ABOUT DEC TAKING LEGAL ACTION FOR NON-COMPLIANCE AND LACK OF COOPERATION. 5/3/93 MNP INSPECTION. EXCAVATION REMAINS OPEN. PATCHES OF OIL INSIDE. CONTAMINATED SOIL PILE ON SITE UNCOVERED. OTHER TWO TANKS NOT REMOVED YET. TWO NEW TANKS ON SITE. 5/25/93 TANK CLOSURE REPORT SUBMITTED BY MARSHALL TANK NOTIFYING THAT THE FOUR GAS TANKS WILL BE CLOSED ON 5/26/93. 5/26/93 MNP INSPECTION. CONTAMINATED SOIL BEING REMOVED FROM 3000 AND 4000 TANK PIT (PULLED 10-92). SOIL HEAVILY CONTAMINATED AND PRODUCT SEEPING IN FROM PUMP ISLAND. 6000 AND 4000 TANKS WILL BE PULLED TOMORROW. SLOW CLEANUP, LACK COOPERATION. 5/27/93 MNP INSPECTION. WATER WITH SHEEN AND SCUM BEING PUMPED FROM EXCAVATION TO SURFACE, ENTERING STREET AND SEWERS. COLLECTED SAMPLE OF WATER AT 1:15 PM. TANKS NOT REMOVED YET. PLAN TO PULL ONE TANK AND INSTALL TWO NEW TANKS (TOMORROW), THEN PULL OTHER TANK. CONTAMINATION ALONG EAST SIDE NEXT TO DISPENSOR PUMPS. CONTAMINATED WATER RUNNING INTO EXCAVATION AND BEING PUMPED ONTO GROUND. COLLECTED ONE COMPOSITE SAMPLE FROM BOTTOM AT 12 FOOT DEPTH. 160 PPM HNU AND ONE SAMPLE FROM EAST SIDE AT DISPENSOR. MET WITH STASIO AND LT. FABIAN, BUFFALO FIRE DEPARTMENT. DISCUSSED PROBLEMS AT SITE. M. TANK NOT EXCAVTING DEEPER THAN 12 FEET AND NOT DIGGING UNDER DISPENSORS. TO BE DONE BY HALES MAINTENANCE. 1:15 PM SAMPLE #1A & B WATER FOM PUMP HOSE 2:00 PM SAMPLE #2 SOIL COMPOSITE FROM BOTTOM 12 FT DEPTH 2:20 PM SAMPLE #3 SOIL GRAB FROM EAST SIDE TOWARD DISPENSOR 6/4/93 RECEIVED THE 6/3/93 BUFFALO SEWER AUTHORITY LETTER TO MARSHALL KIMMINS STATING THAT THEY ARE FINED $600 FOR THE ILLEGAL DISCHARGE TO THE BUFFALO SEWER AUTHORITY FROM 1270 JEFFERSON AVENUE. 6/14/93 DEC LETTER TO ADVANCED ENVIRONMENTAL SERVICES AUTHORIZING THEM TO ANALYZE SAMPLES. 6/16/93 ANALYTICAL RESULTS FROM ADVANCED RECEIVED: #1 FROM HOSE: GASOLINE PRESENT BENZENE 4500 UG/L TOLUENE 1600 UG/L ETHYLBENZENE 550 UG/L M/P-XYLENE 1600 UG/L O-XYLENE 430 UG/L MTBE 4200 UG/L #2 BOTTOM GASOLINE PRESENT BENZENE 41 UG/KG SEC-BUTYLBENZENE 11 UG/KG ETHYLBENZENE 13 UG/KG METHYLENE CHLORIDE 5.6 UG/KG STYRENE 3.4 UG/KG TOLUENE 30 UG/KG M/P-XYLENE 43 UG/KG O-XYLENE 28 UG/KG MTBE 2800 UG/KG NAPHTHALENE 9.3 UG/KG #3 EAST SIDE GASOLINE PRESENT N-BUTYLBENZENE 3500 UG/KG

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SEC-BUTYLBENZENE 730 UG/KG ETHYLBENZENE 340 UG/KG ISOPROPYLBENZENE 340 UG/KG P-ISOPROPYLTOLUENE 350 UG/KG METHYLENE CHLORIDE 1300 UG/KG 1,2,4-TRIMETHYLBENZENE 6000 UG/KG M/P-XYLENE 2500 UG/KG O-XYLENE 1400 UG/KG 6/18/93 PAYMENT PACKAGE FOR ADVANCED APPROVED FOR $920.09. 08/04/93: 8/4/93 MNP INSP. NO ONE AT SITE. 2 NEW TANKS IN PARTIALLY BACKFILLED EXCAVATION. 4 4' MW'S IN TANK PIT. GASOLINE ODOR & HNU READINGS UP TO 20 PPM. APPROX. 800 YDS. SOIL UNCOVERED, NOT FENCED. 9/21/93 DEC LETTER SENT TO MR. SEREDAY REQUESTING A FENCE AROUND THE OPEN EXCAVATION IMMEDIATELY AND A REMEDIATION PLAN BY 10/1/93. 10/22/93: 10/22/93 MNP INSP. NO ONE AT SITE. 2 NEW TANKS IN PARTIALLY BACKFILLED EXCAVATION. APPROX. 800 YDS. SOIL UNCOVERED, NOT FENCED. 01/26/94: FG/LEON SEREDAY/TELECON - PLANS ON PERFORMING ON-SITE BIOREMEDIATION ON SOILS REMAINING IN EXCAVATION. EXCAVATED SOILS ALSO TO BE BIOREMEDIATED ON-SITE. REQUESTED REMEDIATION PLAN FOR UPCOMING WORK. 01/26/94: FG/MF - 1/26/94 SITE VISIT - GAS STATION ABANDONED. SOIL STOCKPILED ON-SITE. EXCAVATION PIT REMAINS OPEN WITH NO FENCE AROUND IT. 1/27/94 DEC LETTER TO MR. SEREDAY ASKING FOR RIGHT OF ENTRY. RESPONSE DUE 2/9/94. 2/2/94 DEC LETTER SENT TO MR. SEREDAY REQUESTING THAT A FENCE BE PUT UP AROUND THE EXCAVATION AS SOON AS POSSIBLE. 02/23/94: FG - 2/23/94 SITE VISIT - FENCE HAS BEEN INSTALLED AROUND EXCAVATION. 03/11/94: FG SENT LTR 3/10/94. REQUESTED RESPONSE FOR RIGHT OF ENTRY LTR BY 3/23/94. 3/25/94 FG SPOKE TO MR. TAFT FROM RUST ENVIRONMENTAL. HE SAID HE IS WORKING ON A PROPOSAL FOR INVESTIGATION AT THE SITE. WELLS AND SAMPLING. HE WILL ALSO SAMPLE SOIL PILE FOR DISPOSAL OR TREATMENT. MR. SEREDAY TOLD MR. TAFT TO CALL ME TO TELL ME THERE IS ACTIVITY. . SEREDAY HAS YET TO SIGN THE CONTRACT WITH RUST. 04/12/94: FG SITE VISIT 4/11/94. FENCE IS DOWN. SOIL PILE IS STILL PRESENT. PIT IS OPEN. SITE REMAINS UNTOUCHED. 4/18/94 FG CALLED LEON SEREDAY. HE SAID HE WILL SUBMIT INVESTIGATION PROPOSAL TO THIS OFFICE AS SOON AS POSSIBLE. HE SAID RUST WILL BE TAKING BORING SAMPLES AT THE SITE AND COLLECTING SAMPLES FROM THE STOCKPILED SOILS FOR DISPOSAL OR TREATMENT. 4/28/94 RECEIVED 4/21/93 LETTER FROM RUST DEFINING SCOPE OF WORK FOR THE SITE. 3 WELLS TO BE INSTALLED, AND SAMPLED. STOCKPILED SOIL TO BE SCREENED USING AN HNU AND A REPORT IS TO BE PROVIDED. 5/6/94 FG SITE INSPECTION. RUST ON SITE INSTALLING WELLS. EXCAVATION WAS STILL OPEN. SOIL STOCKPILED ON SITE, UNCOVERED. MR. TAFT SAID HIS REPORT WILL BE READY IN FOUR WEEKS. 5/10/94 FG SITE INSPECTION. RUST ENVIRONMENTAL ON SITE MOVING SOIL PILE TO OTHER SIDE OF THE SITE PLACING PLASTIC OVER IT. THE SOIL WAS CONTAMINATED. IT HAD A STRONG PETROLEUM ODOR AND WAS DISCOLORED. 5/11/94 DEC LETTER TO RUST PROVIDING A COPY OF ON SITE SAMPLING. REPORT FOR THE WORK IS DUE 6/1/94. 05/31/94: FG SITE VISIT 5/31/94. SOILS STOCKPILED ON SITE. UST PIT PARTIALLY BACKFILLED. FENCE SURROUNDING EXCAVATION. 5/31/94 FG SPOKE TO MR. TAFT WITH RUST. HE HAS NOT RECEIVED ANALYSIS YET. HE IS EXPECTING RESULTS BY NEXT WEEK. HE WILL SEND A LETTER CONFIRMING THE CONVERSATION. HIS REPORT IS TO INCLUDE POSSIBLE REMEDIATION OPTIONS. 6/14/94 RECEIVED 6/9/94 LETTER SUBMITTING THE SUBSURFACE INVESTIGATION STUDY. ALL THREE WELLS INSTALLED SHOWED CONTAMINATION ABOVE STARS. MW1 TOTAL VOLATILES 1120UG/L MW2 TOTAL VOLATILES 1967UG/L MW3 TOTAL VOLATILES 2806UG/L THE GROUNDWATER FLOW IS IN THE SOUTH-SOUTHEAST DIRECTION TOWARDS JEFFERSON AVE. THE STOCKPILED SOIL ANALYSIS IS TCLP TOTAL VOLATILES = 841PPB. 6/17/94 DEC LETTER TO MR. SEREDAY. REQUESTED QUARTERLY WELL SAMPLING FOR 8021 & MTBE FOR ONE YEAR REPORTING REQUIRED AND SOIL DISPOSAL OR BIOREMEDIATION. A WORK SCHEDULE IS DUE 7/11/94. 8/24/94 DEC LETTER TO MR. SEREDAY REQUESTING AN UPDATE ON THE STATUS OF THE SITE BY 9/5/94. 08/30/94: FG SITE VISIT 8/30/94. SOILS STOCKPILED ON

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SITE. NO FURTHER WORK ON BIO PILE COMPLETED. LOOKS AS THOUGH UNDERGROUND EXCAVATION OCCURRED AT SITE. NO NOTIFICATION TO DEPT PROVIDED. 9/30/94 RECEIVED FAX DATED 9/29/94 FROM NATURE'S WAY WHICH STATES FOR YOUR FILE - WE ARE UP AND GOING AT THIS SITE. NATURE'S WAY WAS CONTRACTED BY LEON SEREDAY ON 9/1/94 TO COMPLETE BIOREMEDIATION OF THE CONTAMINATED SOILS ON SITE. WORK IS TO BEGIN 9/25/94. THE INTENTION IS TO USE THE TREATED SOIL ON SITE AS FILL. 11/03/94: FG SITE VISIT 10/19/94. BIOPILES HAVE BEEN SET UP. REMED TO BEGIN & CONTINUE THROUGH NEXT SUMMER. 11/3/94 NATURE'S WAY SUBMITTED IN A LETTER DATED 11/1/94 CONTAMINATED SOIL PILE ANALYTICAL RESULTS. 8021 DIRECT RESULTS ARE 85100 UG/KG AND 8021 TCLP RESULTS ARE 50.3 UG/L. THEY WILL SUSPEND TREATMENT ON 11/1/94 AND RESUME ON 4/15/95. 11/14/94 RECEIVED RUST 11/11/94 GROUNDWATER SAMPLING REPORT. MW1 COULD NOT BE SAMPLED BECAUSE IT WAS COVERED WITH THE BIOPILE. MW2 TOTAL VOLATILES 840.8 UG/L MW3 TOTAL VOLATILES 4703 UG/L 11/15/94: LTR SENT TO SEREDAY TELLING HIM GW SAMPLING IN DECEMBER NECESSARY-DUE BY 11/30/94. TOLD HIM WE WANT TO BE NOTIFIED SO WE CAN BE PRESENT. WAITING FOR DEC 94 GW SAMPLING TO DECIDE IF REMEDIATION IS NECESSARY. 12/1/94 ISR COMPLETED 2/8/95 PENALTY RECOMMENDATIONS FOR VIOLATIONS OF ARTICLE 12 OF THE NAVIGATION LAW MEMO FOR THIS SITE. 3/31/95 DEC ALBANY REFERRAL LETTER TO SPILL FUND ADMINISTRATOR REFERRING THIS SITE. 05/09/95: FG SITE VISIT 5/9/95. NO ACTIVITY ON SITE. BIOPILES ON SITE. EXCAVATION BACKFILLED. 5/10/95 DEC LETTER TO MR. SEREDAY REQUESTING AN UPDATE ON THE STATUS OF THE SITE AND SUBMISSION OF THE DECEMBER 94 AND MARCH 95 QUARTERLY GROUNDWATER SAMPLING RESULTS AND BIOREMEDIATION RESULTS BY 5/31/95. 06/01/95: JDC ON SITE AND MET W/NATURE'S WAY-APPLYING BIOTREAT LIQUID. BFLO POLICE RESPONDED TO SITE. OTHER SPILL #9502661 CLOSED OUT. 6/8/95 DEC LETTER TO MR. SEREDAY REQUESTING A RESPONSE TO MY 5/10/95 LETTER BY 6/22/95. 7/19/95 DEC LETTER TO MR. SEREDAY REQUESTING AN UPDATE ON THE STATUS OF THE SITE INCLUDING QUARTERLY RESULTS FROM DECEMBER 94, MARCH 95 AND JUNE 95 AND BIOREMEDIATION RESULTS BY 8/2/95. 07/26/95: FG SITE VISIT 7/26/95. CHECKED 10 SPOTS IN PILE TO 2 FT DEEP-NO PETRO ODOR DETECTED. NATURE'S WAY COLLECTED FINAL SAMPLES ON 7/25. 8/3/95 DEC LETTER TO MR. SEREDAY REQUESTING HE SIGN A RIGHT OF ENTRY. RESPONSE IS DUE 8/15/98. 08/08/95: LEON SEREDAY CALLED TO SAY THAT R. SAVAGE TO SUBMIT SOIL ANALYSIS WITHIN THE NEXT COUPLE OF WEEKS. R. SAVAGE TO COLLECT GROUNDWATER SAMPLES BUT HAS NOT DONE IT YET.MR. SEREDAY TO CALL R. SAVAGE AND HAVE HIM CONTACT ME WHEN HE WILL SAMPLE THE WELLS ON SITE. 8/10/95 NATURE'S WAY SUBMITTED SOIL PILE RESULTS. ALL SAMPLES ARE BELOW STARS GUIDELINES. 8/24/95 NATURE'S WAY FAXED GROUNDWATER RESULTS FOR THE THREE WELLS ON SITE: MW1 TOTAL VOLATILES 76.5 PPM MW2 TOTAL VOLATILES 85 PPB MW3 TOTAL VOLATILES 184 PPB 8/29/95 DEC LETTER TO MR. SEREDAY STATING THAT BIOREMEDIATED SOIL IS BELOW STARS AND CAN BE USED ON SITE AS FILL AND GROUNDWATER REMEDIATION IS NECESSARY. A REMEDIATION PROPOSAL IS DUE 9/15/95. 10/30/95 DEC LETTER TO MR. SEREDAY REQUESTING A RESPONSE TO MY 8/29/95 LETTER BY 11/15/95 11/20/95 DEC LETTER TO MR. SEREDAY REQUESTING THE REMEDIATION PROPOSAL BY 12/15/95 1/12/96 DEC LETTER TO MR. SEREDAY REQUESTING THE REMEDIATION PROPOSAL BY 1/31/96. 2/16/96 RIGHT OF ENTRY LTR SENT TO MR. SEREDAY. RESPONSE DUE BY 3/15/96. 3/18/96 MR. SEREDAY SENT THE 2/16/96 LETTER BACK TO THIS OFFICE. 3/28/96 MR. SEREDAY SUBMITTED A LTR DATED 3/13/96 WHICH STATES THAT HE WILL REMEDIATE THE SITE. HE IS AWARE THAT THIS LETTER WAS NOT THE FIRST TIME THE DEPARTMENT HAS MADE AN EFFORT TO CONTACT HIM. HE WILL TRY TO MAKE EVERY EFFORT TO COMMUNICATE ON A MORE TIMELY AND FREQUENT BASE IN THE FUTURE. 4/15/96 LTR SENT TO MR. SEREDAY REQUIRING

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GROUNDWATER SAMPLING. A WORK SCHEDULE IS DUE BY 5/1/96. 5/2/96 DEC LETTER TO MR. SEREDAY REQUESTING A RESPONSE TO MY 4/15/96 LETTER BY 5/15/96. 7/31/96 DEC LETTER TO MR. SEREDAY REQUESTING AN UPDATE ON THE STATUS OF THE REMEDIATION BY 8/15/96. 9/17/96 DEC LETTER TO MR. SEREDAY REQUESTING A RIGHT OF ENTRY. A RESPONSE IS DUE 9/27/96. 10/31/96 DEC LETTER TO MR. SEREDAY REQUESTING A RIGHT OF ENTRY. A RESPONSE IS DUE 11/20/96. 2/6/97 LTR SENT TO MR. SEREDAY REQUESTING A ROE FOR WORK OR A SCHEDULE FOR WORK ON SITE. RESPONSE DUE BY 2/21/97. 3/24/97 FG COLLECTED GROUNDWATER SAMPLES FROM THE 3 WELLS ON SITE. 5 GALLONS OF WATER WAS PURGED FROM EACH WELL PRIOR TO SAMPLE COLLECTION. SAMPLES WERE TAKEN TO ACTS FOR 8021 STARS ANALYSIS. RESULTS ARE EXPECTED IN 10 WORKING DAYS. THESE SAMPLES WERE COLLECTED BECAUSE MR. SEREDAY HAS IGNORED ANY REQUESTS FOR ACTIVITY. THE LAST ACTIVITY ON SITE TOOK PLACE IN 1995. 3/25/97 DEC LETTER TO ACTS AUTHORIZING ANALYTICAL WORK. 4/7/97 RECD ANALYTICAL RESULTS FROM ACTS: (DIDN'T ANALYZE FOR MTBE) MW1 TOTAL VOLATILES 11.38 PPM MW2 TOTAL VOLATILES 34 PPB MW3 TOTAL VOLATILES 862 PPB BRIAN HAYDEN, CITY OF BUFFALO, BUILDING INSPECTIONS, REVIEWED THE FILE. 4/10/97 PROCESSED ACTS PAYMENT PACKAGE FOR $270.00 8/25/97 LTR SENT TO MR. SEREDAY REQUESTING ROE. RESPONSE DUE BY 9/17/97. 12/5/97 LTR SENT TO MR. SEREDAY REQUESTING ROE. RESPONSE DUE BY 12/30/97. 4/14/98 FG SPOKE TO MR. SEREDAY. HE SAID THAT HE WILL RESAMPLE THE WELLS THIS MONTH. I TOLD HIM I WILL SEND A CONFIRMING LETTER FOR THIS ACTION. FURTHER ACTION MAY BE NECESSARY BASED ON THE RESULTS. HE WILL PROVIDE THE RESULTS BY MAY 15, 1998. 5/1/98 LTR SENT OUT CONFIRMING MR. SEREDAY'S COMMITTMENT TO SAMPLING THE WELLS ON SITE. RESPONSE IS DUE 5/15/98. 7/9/98 LETTER SENT TO MR. SEREDAY REQUESTING RIGHT OF ENTRY. RESPONSE IS DUE BY 7/30/98. 8/31/00 LEGAL REFERRAL MADE ON 1/15/99. NOTE SENT TO ABBY SNYDER, REGIONAL ATTORNEY REQUESTING AN UPDATE ON THE STATUS OF THE LEGAL REFERRAL. 12/28/00 NOTE SENT TO ABBY SNYDER, REGIONAL ATTORNEY, REQUESTING AN UPDATE ON THE STATUS OF THE LEGAL REFERRAL. 1/8/03 RIGHT OF ENTRY LETTER SENT TO LEON SEREDAY WITH A RESPONSE DUE 1/28/03. REQUESTED THAT LEGAL PROVIDE AN UPDATE ON THE STATUS OF THEIR ACTION ON THE SITE. 2/12/04 REQUESTED AN UPDATE ON THE LEGAL REFERRAL TO DAVE STEVER, NYSDEC ATTORNEY. 2/17/05 LEGAL SAID THEY WOULD CHECK WITH THE LOCAL AG, JANE CAMERON FOR AN UPDATE ON ANY ACTIVITY BUT THEY WANTED TO KNOW IF THE STATUS OF THE SITE HAS CHANGED. FG SITE INSPECTION. THE BUILDING IS UNUSED AND BOARDED UP AND THE UST'S ARE STILL PARTIALLY UNCOVERED. 6/21/05 FG, DAVE STEVER, JANE CAMERON MET WITH MR. LEON SEREDAY AT THE ATTORNEY GENERAL'S OFFICES. MR. SEREDAY SIGNED A RIGHT OF ENTRY ALLOWING NYSDEC TO COMPLETE THE SITE WORK. MR. SEREDAY'S PHONE NUMBER IS 836-3924. HE SAID WE COULD REMOVE THE FUEL OIL AND WASTE OIL UST'S IF NECESSARY. HE WOULD LIKE TO KEEP THE EXISTING UST'S ON SITE BECAUSE HE IS PLANNING ON USING THEM WHEN HE REOPENS THE STATION. 7/7/05 C&W, EMPIRE AND NATURE'S WAY SUBMITTED THEIR PRICE SOLICITATIONS RESPONSES. NATURE'S WAY WAS THE LOWEST PRICE SO THEY WERE GIVEN THE JOB. THEY WILL BEGIN THE SUBSURFACE INVESTIGATION ON JULY 11 OR 12, 2005. FG NOTIFIED LEON SEREDAY THAT WORK WILL BEGIN. 7/20/05 TOM HELLERT WITH GES CALLED AND INDICATED SUNOCO WILL PROVIDE A RESPONSE BY 8/15/05. HE WOULD LIKE TO REVIEW THE FILE. NATURE'S WAY WAS ON SITE LAST WEEK COMPLETING THE SUBSURFACE BORING PROGRAM AND PETROLEUM CONTAMINATION WAS DISCOVERED. A REPORT OF THEIR FINDINGS WILL BE PROVIDED WITHIN THE NEXT SEVERAL WEEKS. 7/27/05 RECD THE GW ANALYTICAL FOR THE EXISTING SITE WELLS.MW1 3200 PPB MTBE, MW2 31 PPB MTBE, MW3 BENZENE 200 PPB, MTBE 680 PPB. 8/5/05 RECD THE SOIL SAMPLING RESULTS FROM NATURE'S WAY SUBSURFACE INVESTIGATION: EP6

**LEONS SUNOCO (Continued)** **U003316873**

2-4FT UNIDENTIFIED HYDROCARBON 38 PPM TETRAETHYLLEAD ND 124TRIMETHYLBENZENE 4800 PPB 135TRIMETHYLBENZENE 3500PPB ETHYLBENZENE 29000 PPB ISOPROPYLBENZENE 19000 PPB M,PXYLENE 31000 PPB MTBE ND NBUTYLBENZENE 17000 PPB NPROPYLBENZENE 19000 PPB NAPHTHALENE 20000 PPB SECBUTYLBENZENE 2800 PPB EP14 2-4FT UNIDENTIFIED HYDROCARBON 6.2 PPM TETRAETHYLLEAD 1100 PPM 124TRIMETHYLBENZENE 39000 PPB 135TRIMETHYLBENZENE 3600 PPB ETHYLBENZENE 22000 PPB ISOPROPYLBENZENE 140000 PPB M,PXYLENE 78000 PPB MTBE ND NPROPYLBENZENE 16000 PPB NAPHTHALENE 20000 PPB OXYLENE 5600 PPB EP15 4-6FT UNIDENTIFIED HYDROCARBON 1.9 PPM TETRAETHYLLEAD ND 124TRIMETHYLBENZENE 3700 PPB ISOPROPYLBENZENE 16000 PPB M,PXYLENE 5100 PPB NAPHTHALENE 3100 PPB SOIL DISPOSAL ANALYTICAL IS NONHAZARDOUS. 8/9/05 NATURE'S WAY SUBMITTED THE SUBSURFACE INVESTIGATION REPORT FOR THE SITE WORK THEY COMPLETED ON JULY 11 & 12, 2005. THEY COMPLETED 15 BORINGS. THE 3 EXISTING MW'S WERE SAMPLED. 3 WORST CASE SOIL SAMPLES WERE ANALLYZED. THE RESULTS ARE AS NOTED IN THE 8/5/05 COMMENTS ABOVE. NATURE'S WAY RECOMMENDS SOIL REMOVAL. 8/16/05 SUNOCO PROVIDED A RESPONSE WHICH INDICATED THAT THEY WANTED 6 ADDITIONAL WEEKS TO COMPLETE TESTING TO DETERMINE IF THEY WOULD TAKE OVER THE PROJECT. NYSDEC INDICATED THAT THEY COULD COLLECT SAMPLES FROM THE REMEDIATION WORK THAT WOULD BE COMPLETED ON SITE. THEY AGREED THAT THIS WOULD BE ACCEPTABLE. SO, NYSDEC WILL PROCEED WITH THE REMEDIATION. NATURE'S WAY INDICATED THAT THEY WOULD BEGIN SITE WORK ON THURS 8/18/05. 8/24/05 NATURE'S WAY ON SITE STARTED SITE WORK. EXCAVATOR, LOWBOY, VAN ON SITE. JAMIE, TONY AND HELPER ON SITE. ANDY JANIK WITH GES ON SITE TO COLLECT SAMPLES. EXCAVATION WORK BEGAN WITH LOADS OF CONTAMINATED SOIL GOING TO ENSOL. FG AND RUSS SAVAGE WITH NATURE'S WAY VISITED LEON SEREDAY, OWNER OF THE PROPERTY. TOLD HIM THAT WE WOULD HAVE TO MOVE THE UST'S BECAUSE CONTAMINATION IS PRESENT BENEATH THEM AND THEY ARE FULL OF GASOLINE. HE SAID HE WOULD TAKE THE GASOLINE AND USE IT AT HIS STATION AT 905 ELMWOOD. 8/25/05 FG SITE INSPECTION. JAMIE, TONY, EXCAVATOR, BAKER TANK ON SITE. PUMPING EXCAVATION WATER TO BAKER TANK. ONE TRUCK LOADED TO THE LANDFILL SO FAR. CONTAMINATION IS PRESENT. GASOLINE WAS BEING LOADED OUT TO BE TAKEN TO LEON SEREDAY. GES COLLECTED A SAMPLE YESTERDAY AND NATURE'S WAY SPLIT IT. 08/29/05 JFO ON SITE WITH TOM WOLFLE, JAMIE, 2 LABORERS AND A DRIVER. 3 PICKUPS, EXCAVATOR, TANKER TRUCK AND A BAKER TANK. THEY HAVE REMOVED 9000 GALLONS OF GAS AND THEY ESTIMATE ANOTHER 2800 GALLONS IN THE TANK. THE NORTH EAST CORNER OF THE EXCAVATION IS DISCOLORED AND STRONG GASOLINE ODORS. 08/30/05 JFO ON SITE WITH TOM W AND LABORER. PICKUP, EXCAVATOR AND 2 BAKER TANKS. THEY ARE TO THE SIDEWALK IN THE NORTH EAST CORNER. STILL CONTAMINATED. THE TANKS ARE UNCOVERED AND THEY FOUND THAT THEY ARE INSTALLED AT LEAST 4' BELOW GRADE. TOM BELEIVES BELOW THE TANKS IS CLEAN BECAUSE WATER IS COMING FROM THAT SIDEWALL AND THERE IS NO SHEEN OR ODOR. 09/01/05 JFO ON SITE MET WITH TOM W AND JAMIE. THE WASTE OIL AND HEATING OIL TANKS FROM BEHIND THE BUILDING HAVE BEEN REMOVED. JAMIE IS WAITING FOR A PID METER TO DETERMINE IF THE HOLE IS OK TO SAMPLE. IT LOOKS GOOD. SOIL IS STAGED ON THE LEFT SIDE OF THE BUILDING. THEY ARE GOING TO DIG THE PUMP ISLANDS TODAY. 09/01/05 RMC/SITE. SPILLS RECEIVED AN ODOR COMPLAINT DNA KING SET ME TO DO A SITE INSPECTION. MET TOM W., NWECC AT ABOUT 4PM. EXCAVATION IS DONE FOR THE DAY BUT HE CONFIRMED THAT THEY ARE DIGGING OUT GASOLINE CONTAMINATION WITH STRONG ODORS. THIS IS A DIRECT DIG. HE THINKS ONE MORE DAY OF DIGGING WILL FINISH THE JOB. IT APPEARS THEY ARE DOING EVERYTHING RIGHT. RMC REPORTED BACK TO DAN KING. 09/02/05 RMC/SITE. 9AM. DIGGING CONTINUES 10 TRUCKS LOADED OUT SO FAR TODAY. CAN NOT DETECT ODORS AROUND THE SITE UNLESS TRUCKS ARE BEING LOADED. BASED ON

**LEONS SUNOCO (Continued)** **U003316873**

PHASE II ESTIMATE ABOUT 400 TONS TO GO. MORE THAN 3000 REMOVED TO DATE. UPDATED DAN KING. 9/6/05 FG, ANDREA SKALSKI, RUSS SAVAGE MET WITH LEON SEREDAY. ASKED IF HE WANTED UST'S REMOVED. HE SAID NO, HE WILL BE OPENING THE STATION WITH CARL HASSELBECK SHORTLY. MR. SEREDAY INDICATED THAT WHEN SUNOCO HAD THE STATION, THE FILTERS UNDER THE ISLANDS LEAKED SIGNIFICANTLY. MR. SAVAGE RECOMMENDED THAT WE OBTAIN THE SERVICE RECORDS FROM SUNOCO. WENT TO SITE AND DETERMINED THAT UST'S ARE DOUBLE WALL. EXCAVATION WORK CONTINUING ALONG WITH BACKFILLING OF AREAS ALREADY REMOVED. 9/8/05 FG SITE INSPECTION. BACKFILLING AND EXCAVATION WORK CONTINUING. 9/9/05 FG SITE INSPECTION. BAKER TANK EXCAVATION WATER ANALYTICAL WAS BELOW STANDARDS. NATURE'S WAY PLANS ON DISCHARGING THE WATER TO THE SITE ON MONDAY. CHOSE SAMPLES TO BE SUBMITTED FOR DATING ANALYSIS TO ZYMAX LABS. ONCE THE WATER IS TREATED, ADDITIONAL SOIL WILL BE REMOVED WHERE THE BAKER TANK WAS SITTING. FG SPOKE TO LEON SEREDAY ABOUT THE LIFTS INSIDE THE BUILDING. HE SAID HE WANTS THE DEPT TO REMOVE THE LIFTS. HE SAID THEY WERE LEAKING AND WERE LEAKING WHEN SUNOCO OPERATED THE STATION. 9/13/05 FG SITE INSPECTION. NO ACTIVITY AT SITE. NATURE'S WAY INDICATED THAT THEY ARE AWAITING ANALYTICAL RESULTS FROM UPSTATE BECAUSE THEY WILL BE SEEKING APPROVAL FROM THE CITY OF BUFFALO FOR DISCHARGE TO THE BSA. 9/14/05 RECD DISPOSAL ANALYTICAL FROM UPSTATE FOR 4 SAMPLES COLLECTED. DOH 310-13 RESULTS SHOW THAT TWO OF THE SAMPLES WERE IDENTIFIED AS AN UNIDENTIFIED HYDROCARBON AND TWO SAMPLES WERE IDENTIFIED AS FUEL #2. THE SAMPLES WERE DETERMINED TO BE NONHAZARDOUS. 9/16/05 FG SPOKE TO LEON SEREDAY. TOLD HIM THAT THE UST'S ARE CURRENTLY EMPTY AND ASKED IF HE WOULD LIKE THE DEPT TO FILL THEM TO ELIMINATE THE POSSIBILITY OF FLOATING THE UST'S. HE SAID NO, HE DOES NOT WANT THE UST'S FILLED BECAUSE HE WILL BE OPENING THE STATION SOON. 9/19/05 RECD DISPOSAL ANALYTICAL FOR THE ADDITIONAL SOIL TO BE EXCAVATED AND IT IS SHOWN TO BE NON HAZARDOUS, FUEL OIL #2. POST CARBON FILTRATION RESULTS ARE ND FOR 8260. PRE CARBON SHOWED MTBE AT 59 PPB AND NAPHTHALENE AT 17 PPB. 9/29/05 RMC NOTIFIED FG AT 2:00PM THAT THE UST AT LEON'S HAD FLOATED. TOM WOELFLE WITH NATURE'S WAY TOLD HIM. FG SITE INSPECTION 2:30PM. NATURE'S WAY WAS ON SITE REMOVING THE TWO LIFTS INSIDE THE BUILDING. THE UST ON THE NORTH SIDE OF THE TANK PIT WAS THE ONE THAT FLOATED AND THEN TURNED. THE OTHER UST WAS STILL IN PLACE. NATURE'S WAY INDICATED THAT THEY WERE AWARE OF THIS ON 9/28/05 WHEN THEY CAME ON SITE TO BREAK THE CONCRETE AROUND THE LIFTS. FG CONTACTED LEON SEREDAY, PROPERTY OWNER, CELL 510-3236. HE SAID HE WOULD COME ON SITE. MR. SEREDAY ARRIVED AND SAID THAT HE TOLD NATURE'S WAY TO PLACE STONE OVER THE TOP OF THE UST AND HE BELIEVES IT WOULD NOT HAVE FLOATED. I TOLD MR. SEREDAY THAT WE PREVIOUSLY DISCUSSED PLACING WATER IN THE UST'S SO THEY WOULD NOT FLOAT AND HE DID NOT WANT NYSDEC/ NW TO DO THIS BECAUSE HE WOULD BE USING THE UST'S SOON. SO WE DID NOT PUT WATER IN THE UST'S AND THEY NOW FLOATED. HE AGREED THAT WE HAD HAD THIS CONVERSATION AND HE DID NOT WANT WATER IN THE UST'S. I TOLD HIM THAT HE IS RESPONSIBLE FOR HANDLING THIS UST. HE SAID HE WAS GOING TO MAKE A FEW PHONE CALLS. NW INDICATED THAT THE WATER IN THE UST WOULD FLOAT THE OTHER UST IF IT WASN'T REMOVED. FG GOT APPROVAL FROM LESLIE SEDITA, BSA TO DISCHARGE THE WATER SURROUNDING THE UST'S DIRECTLY TO THE SEWER. NW PUMPED THE TANK PIT WATER TO THE STORM SEWER ALONG LAUREL ST. DAN WIK SAID HE WAS IN CONTACT WITH HIGHLAND AND THEY WILL BE SENDING HIM THE REQUIREMENTS FOR THE RECERTIFICATION OF THE UST. MR. WIK WILL CALL MR. SEREDAY WITH THIS INFORMATION. NW WILL FILL IN LIFT EXCAVATION TOMORROW AND WILL PLAN TO POUR CONCRETE AT A LATER DATE. EDWARD JOSEY SPOKE TO FG ON SITE.

**LEONS SUNOCO (Continued)** **U003316873**

HE SAID THAT THE WATER IN HIS BASEMENT MAY BE IMPACTED BY THIS SITE. I HAD NATURE'S WAY COLLECT A WATER SAMPLE FROM THE FLOOR OF HIS BASEMENT WHERE THERE WAS A 1/2 INCH TRENCH FILLED WITH WATER. HE IS LOCATED AT 316 RILEY ST, BUFFALO, NY 14208 (716)882-5692. THERE WERE NO OBVIOUS SIGNS OF PETROLEUM IMPACT IN THE BASEMENT OR IN THE WATER. 9/30/05 FG JFO SITE INSPECTION. NATURE'S WAY ON SITE PREPARING FOR CONCRETE WORK IN LIFT AREA. THEY WERE PUMPING OUT WATER FROM UST PIT. MR. SEREDAY DID NOT CALL TO DISCUSS WHAT HE WANTED DONE WITH THE UST. FG SPOKE TO RUSS SAVAGE WITH NATURE'S WAY. HE SAID THAT IF ADDITIONAL STONE WAS PLACED ON TOP OF THE UST IT STILL WOULD HAVE FLOATED. 10/3/05 FG, CATHLEEN MCKENZIE SITE VISIT. NATURE'S WAY WILL COMPLETE CONCRETE WORK AND FILL IN AROUND SEWER LINE. MR. SEREDAY HAS NOT CONTACTED THIS DEPT ABOUT WHAT HE WOULD LIKE TO DO WITH THE FLOATED UST. 10/4/05 DAN WIK WITH NATURE'S WAY PROVIDED THE QUOTATION FOR THE RECERTIFICATION OF THE FLOATED UST. IT WOULD COST $4548.25 FOR HIGHLAND, THE MANUFACTURER TO RECERTIFY THE UST. THAT PRICE DOES NOT INCLUDE CLEANING THE UST OR ANY LIFT EQUIPMENT NECESSARY. NATURE'S WAY WAS TO CONTACT MR. SEREDAY TO SEE IF HE WANTS THE WORK DONE AT HIS EXPENSE. 10/6/05 FG CGM SITE INSPECTION. BAKER TANK MOVED AND NW EXCAVATING ADDITIONAL CONTAMINATED SOIL. BAKER TANK WATER BEING FILTERED PRIOR TO DISCHARGE TO BSA. FG CGM VISITED LEON SEREDAY AT 905 ELMWOOD. HE REGISTERED THE TWO UST'S ON SITE AND INFORMED US THAT HE WOULD BE REMOVING THEM TO SELL TO CARL HASSELBACK. 10/7/05 FG CGM SITE INSPECTION. NW ON SITE. THEY BELIEVED THAT THE MATERIAL THEY WERE EXCAVATING IS NOT VIRGIN GASOLINE. THEY BELIEVE IT IS A HEAVIER OIL. THEY HAVE STOCKPILED THE MATERIAL SEPARATELY FOR APPROVAL AT ENSOL. EXCAVATION WATER WAS SIGNIFICANT SO THEY HAD TO FILL THE BAKER TANK AGAIN AFTER EMPTYING IT. EXCAVATION ALONG LAUREL STREET HAD A FOUNDATION WITH TWO PIPES ALONG THE FOUNDATION WALL. NW TO BACKFILL PARTIALLY AND COVER STOCKPILED SOIL. 10/11/05 FG SITE INSPECTION. NW NOT ON SITE. EXCAVATION WAS FILLED IN. NW TO FILTER BAKER TANK WATER AND CLEAN OUT AND REMOVE UST'S ON SITE. 10/17/05 RECD EXCAVATION ANALYTICAL RESULTS FOR 14 SAMPLES. FUEL OIL AND WASTE OIL UST REMOVAL STOCKPILED SOIL IDENTIFIED AS LUBE OIL AND NON HAZARDOUS. PRE-CARBON FILTRATION MTBE 52 PPB POST-CARBON FILTRATION ND 11/2/05 RECD UPSTATE ANALYTICAL FOR 316 RILEY ST. RESULTS ARE ND. RECD THE HAZ DETERMINATION SAMPLING RESULTS FOR THE EXCAVATED MATERIAL STAGED ON SITE. THE RESULTS SHOW THAT THE SOIL IS NON HAZARDOUS. THE DOH 310-13 RESULTS ARE ND. THE PCB'S ARE ND. 11/17/05 RECD UPSTATE ANALYTICAL FOR SAMPLES COLLECTED ON 10/3/05. THE RESULTS ARE: NORTH LIFT BOTTOM ND, 8270, ND 8260 NORTH LIFT SIDEWALLS ND - 8270, ND - 8260 SOUTH LIFT BOTTOM ND 8270, M,P XYLENE 3.5 PPB SOUTH LIFT SIDEWALLS ND 8270, 124 TRIMETHYLBENZENE 7 PPB, N PROPYLBENZENE 4.3 PPB SAMPLE RESULTS WERE SUBMITTED FROM SAMPLES COLLECTED ON 10/7/05: BOTTOM 1 ND - 8270, MTBE 13 PPB BOTTOM 2 PHENANTHRENE 710 PPB, FLUORANTHENE 740 PPB, PYRENE 640 PPB, BENZAANTHRACENE 400, CHRYSENE 400, MTBE 10 PPB WEST WALL N. END ND - 8270, ND - 8260 N. WALL WEST OF FOUNDATION WALL ND - 8270, ND - 8260 12/1/05 FG SITE INSPECTION. TANKS WERE STILL ON SITE. FG SPOKE TO LEON SEREDAY YESTERDAY SUGGESTING THAT HE REMOVE THE TANKS THAT ARE SITTING ON SITE. HE SAID HE WOULD HAVE THEM REMOVED BY 12/2/05. HE WAS TOLD THAT IF HE DOESN'T, THE BINDING WORK FOR THE SITE WILL NOT BE COMPLETED UNTIL THE SPRING. HE UNDERSTOOD AND SAID THE TANKS WOULD BE REMOVED. TOM WOLFLE WAS ON SITE WITH A BACKHOE PREPARING THE SITE FOR PAVING. 12/9/05 TOM HELLERT WITH GES CALLED AND STATED THAT SUN WOULD TAKE OVER THE REMEDIATION AND PAY PAST COSTS ON THE SITE. HE WANTED AN ESTIMATE ON THE AMOUNT SPENT SO FAR ON THE SITE. I TOLD HIM I NEEDED TO CHECK WITH NW AND GET BACK TO

**LEONS SUNOCO (Continued)** **U003316873**

HIM. 02/16/06: MF FG OKED NW $39,982.81 PP #2, 9/28/05 - 10/12/05. THIS PP WAS RESUBMITTED AS WE HAVE NO RECORD OF PROCESSING IT BEFORE, 05-159-02. COVER PAGE CLAIMS IT WAS SENT IN 11/18/05. T/C KINYORDA FOLGEMAN, 315-466-6215, SUN COMPANY. LEFT MESSAGE. PP TO ALBANY. 02/21/06: MF T/C TOM, GES, HE IS WAITING FOR NW'S REPORT THEN THEY WILL FINISH REMEDIATION. 04/27/06 RMC/TOM H. GES/PHONE. HE INQUIRING IF LETTER CAN BE SENT STATING IF SUN PAYS COSTS NO FURTHER WORK OR EXPENSED WILL BE REQUIRED. 5/4/06 Leon regarding AG Richard Green's letter/ PBS registration corrections required for closure of facility. Leon received AG s bill. Wants to know why when Sunoco accepted responsibility. AG tel/conl regarding Sunoco's followup work required to complete/ close file. 5/23/06 Tom, GES, for Sunoco requests info on work yet to be completed/ requested STIP and copy of file along with latest report from NWI. Relayed FXG's request for offsite delineation behind garage where previous borings show contamination impact in that direction. AG telcon wants Sunoco to perform rest of work so file can be paid and closed. Asked if State will take over or give them a chance to cleanup since Sunoco accepted responsibility. AG wants us to dictate next steps so he can force it along. 05/24/06 RMC/RUSS SAVAGE/PHONE. RMC ADVISED THAT DEC IS STILL WAITING ON EXCAVATION REPORT. DUE 5/30/06. 05/25/06 RMC/FILE. RECEIVED CALL FROM JAMIE, AT NWECC. REPORT YET TO BE DONE. WILL DO ASAP. UPDATE 6/15/06. 6/2/06 Rick Green/ AG needs copy of FXG ltr to Sunoco. Sunoco counsel Canyorta Focalmon to call regarding work to be completed. 6/8/06 Tom Hellert/GES requests STIP to sign to get full liability. Wants reports to generate CAP per Conyarta. This is not protocol and rests w/AG's office. RMC/SITE. TWO STIP 3 USTS ON SITE ABOVE GROUND SOUTH OF BUILDING. SITE BLACKTOPPED. REMINDED NWECC THAT REPORT IS DUE. UPDATE 6/30/06. 07/10/06 RMC/FILE. AGAIN REQUESTED REPORT FROM NWECC. UPDATE 7/11/06. 07/12/06 RMC/FILE. DRAFTED GENERIC STIP, FAXED TO GES AND PRP. UPDATE 7/30/06. 07/13/06 RMC/FILE. RECEIVED DRAFT REMEDIAL REPORT. 4970 TONS IMPACTED SOIL WERE REMOVED AND DISPOSED AT TONAWANDA LAND FILL CAP PROJECT. ALL ACCESSIBLE IMPACTED SOILS WERE REMOVED. TAGM EXCEEDANCES ALONG WEST WALL. LACK DATA IN UST EXCAVATION. LACK DATA ALONG JEFFERSON DUE TO AN OLD FOUNDATION. RMC REQUESTS THREE ADDITIONAL BORINGS SET BACK WEST FROM THE WEST WALL, ONE BOTTOM UST SAMPLE, AND THREE BORINGS ALONG JEFFERSON. RMC ALSO REVIEWED 7/05 STUDY BY NWECC. FOUND SOME ERRORS IN THE SITE MAP. NWECC WILL PROVIDE CORRECTED FIGURES. RMC AND DKK WENT OVER THE FILE BRIEFLY. TO REQUIRE 7 ADDITIONAL BORINGS..... 3 ALONG WEST SIDE. 3 ALONG JEFFERSON AND ONE UST EXCAVATION BOTTOM. AREAS WHERE GW WAS IMPACTED WERE EXCAVATED TO MEETING OR JUST OVER TAGM SO NO FURTHER GW SAMPLING WILL BE REQUIRED UNLESS THE ADDITIONAL BORINGS COME BACK SIGNIFICANTLY ABOVE TAGM. DISCUSSED SITE WITH KINYORDA FOGELMAN, SUN. RMC ADVISED BORINGS COULD BE DONE BY DEC OR THEIR CONTRACTORS. NO DECISIONS ON THIS WILL BE NECESSARY BY SUN UNTIL DEC RECEIVES THE FINAL REPORT AND SENDS IT TO SUN FOR REVIEW. UPDATE 7/30/06. 07/24/06 RMC/RICK GREEN/PHONE. HE RECEIVED THE COPY OF THE SIGNED STIP. HE WANTS AN UP TO DATE COSTING ON THE SITE. RMC ADVISED THAT MORE COSTS MAY BE INCURRED AND SOME HAVE YET TO BE BILLED. RMC TO DISCUSS FUTURE BORING WITH GES. 08/09/06 RMC/FILE. RECEIVED FINAL REPORT. SEE ADDITIONAL ASSESSMENT REQUIREMENTS ABOVE. SENT COPY TO GES, UPDATE 8/20/06. 08/21/06 RMC/TOM HELLERT, GES/PHONE. WENT OVER BORING LOCATIONS. GES WILL DO FOR SUN. SENT FAX WITH REQUESTED LOCATIONS. PLAN DUE 9/1/01. 10/03/06 RMC/SITE. GES DOING BORINGS TODAY. THREE COMPLETED ALONG JEFFERSON IN SIDEWALK, FROM THE NORTH FIRST BORING NO IMPACT, SECOND MINOR IMPACT NOTED AT 6

**LEONS SUNOCO (Continued)** **U003316873**

FEET, 10 PID, THIRD WHICH IS PERPENDICULAR TO THE GARAGE ALONG JEFFERSON, IMPACTS 6-8 FEET, 1200 PPM. TO COMPLETE ANOTHER FURTHER SOUTH. GES UNABLE TO GAIN ACCESS TO PROPERTY TO THE WEST YET. UPDATE 11/30/06. 12/19/06 GES SUBMITTED THE SUBSURFACE INVESTIGATION REPORT. 5 SOIL BORINGS WERE COMPLETED. ONLY ONE, SB3 EXCEEDED TAGM 4046 LEVELS. ALL OTHER SOIL SAMPLES WERE BELOW TAGM 4046 GUIDANCE VALUES. GES INDICATED THEY WILL BE INCONTACT WIT HTE DEPT REGARDING FUTURE ACTIONS AT THE SITE. SAMPLING AT THE LAUREL STREET PROPERTY IS NECESSARY. 5/8/07 FG, DKK, THOMAS HELLERT, GES, KINYORDA FOGLEMAN, SUNOCO MEETING AT THE BUFFALO OFFICE. GES HAS TRIED TO OBTAIN ACCESS TO THE LAUREL STREET PROPERTY BUT HAS HAD NO RESPONSE. GES WILL REVIEW THE FILE AND PROVIDE A RESPONSE. 5/30/07 GES SUBMITTED A LETTER REQUESTING AN INACTIVE STATUS ON THE SITE. THE EXCAVATION ANALYTICAL ALONG LAUREL STREET EXCEEDS TAGM 4046 LEVELS BUT AT LEVELS ONLY SLIGHTLY EXCEEDING THE GUIDANCE LEVELS. NO FURTHER WORK IS REQUIRED. THE SITE IS INACTIVE. "

Remarks: "3,000 & 4,000 GAL. MANIFOLDED TANKS FAILED SYSTEM TEST AT -0.812 GPH"
Not reported

All TTF:

| | |
|---|---|
| Facility ID: | 9201141 |
| Spill Number: | 9201141 |
| Spill Tank Test: | 1539924 |
| Site ID: | 67999 |
| Tank Number: | 001 |
| Tank Size: | 0 |
| Material: | Not reported |
| EPA UST: | Not reported |
| UST: | Not reported |
| Cause: | Not reported |
| Source: | Not reported |
| Test Method: | 00 |
| Test Method 2: | Unknown |
| Leak Rate: | .00 |
| Gross Fail: | Not reported |
| Modified By: | Spills |
| Last Modified Date: | Not reported |

| | |
|---|---|
| Facility ID: | 9201141 |
| Spill Number: | 9201141 |
| Spill Tank Test: | 1539925 |
| Site ID: | 67999 |
| Tank Number: | 002 |
| Tank Size: | 0 |
| Material: | Not reported |
| EPA UST: | Not reported |
| UST: | Not reported |
| Cause: | Not reported |
| Source: | Not reported |
| Test Method: | 00 |
| Test Method 2: | Unknown |
| Leak Rate: | .00 |
| Gross Fail: | Not reported |
| Modified By: | Spills |
| Last Modified Date: | Not reported |

All Materials:

**LEONS SUNOCO (Continued)** **U003316873**

Site ID: 67999
Operable Unit ID: 968532
Operable Unit: 01
Material ID: 572830
Material Code: 1213A
Material Name: MTBE (methyl-tert-butyl ether)
Case No.: 01634044
Material FA: Hazardous Material
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Oxygenate: True

Site ID: 67999
Operable Unit ID: 968532
Operable Unit: 01
Material ID: 412484
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: L
Recovered: .00
Oxygenate: True

UST:
Id/Status: 9-103624 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 9
Expiration Date: N/A
UTM X: 185381.98737
UTM Y: 4758000.68400
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 52683
Affiliation Type: Emergency Contact
Company Name: LEON J SEREDAY
Contact Type: Not reported
Contact Name: LEON J SEREDAY
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (716) 836-3924
EMail: Not reported
Fax Number: Not reported
Modified By: THKNIZEK
Date Last Modified: 2009-07-27

Site Id: 52683
Affiliation Type: Mail Contact

**LEONS SUNOCO (Continued)** **U003316873**

| | |
|---|---|
| Company Name: | LEON SEREDAY |
| Contact Type: | Not reported |
| Contact Name: | Not reported |
| Address1: | 441 ASHFORD AVE. |
| Address2: | Not reported |
| City: | TONAWANDA |
| State: | NY |
| Zip Code: | 14150 |
| Country Code: | 001 |
| Phone: | (716) 836-3924 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | LJJUDD |
| Date Last Modified: | 2005-10-07 |

| | |
|---|---|
| Site Id: | 52683 |
| Affiliation Type: | Facility Operator |
| Company Name: | LEONS SUNOCO |
| Contact Type: | Not reported |
| Contact Name: | LEON J SEREDAY |
| Address1: | Not reported |
| Address2: | Not reported |
| City: | Not reported |
| State: | NN |
| Zip Code: | Not reported |
| Country Code: | 001 |
| Phone: | (716) 884-0042 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | LJJUDD |
| Date Last Modified: | 2005-10-07 |

| | |
|---|---|
| Site Id: | 52683 |
| Affiliation Type: | Facility Owner |
| Company Name: | LEON J SEREDAY |
| Contact Type: | OWNER |
| Contact Name: | LEON J.SEREDAY |
| Address1: | 441 ASHFORD AVE |
| Address2: | Not reported |
| City: | TONAWANDA |
| State: | NY |
| Zip Code: | 14150 |
| Country Code: | 001 |
| Phone: | (716) 836-3924 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | LJJUDD |
| Date Last Modified: | 2005-10-07 |

Tank Info:

| | |
|---|---|
| Tank Number: | # ONE |
| Tank ID: | 172508 |
| Tank Status: | Closed - Removed |
| Material Name: | Closed - Removed |
| Capacity Gallons: | 10000 |
| Install Date: | 09/01/1994 |

**LEONS SUNOCO (Continued)** **U003316873**

| | |
|---|---|
| Date Tank Closed: | 09/01/2005 |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Steel/carbon steel |
| Material Code: | 0009 |
| Common Name of Substance: | Gasoline |
| Tightness Test Method: | NN |
| Date Test: | Not reported |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | CGMCKENZ |
| Last Modified: | 04/14/2017 |

Equipment Records:

D00 - Pipe Type - No Piping
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
E00 - Piping Secondary Containment - None
I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
B02 - Tank External Protection - Original Sacrificial Anode
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
J00 - Dispenser - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G04 - Tank Secondary Containment - Double-Walled (Underground)

| | |
|---|---|
| Tank Number: | # THREE |
| Tank ID: | 211688 |
| Tank Status: | Closed - Removed |
| Material Name: | Closed - Removed |
| Capacity Gallons: | 5000 |
| Install Date: | 09/01/1994 |
| Date Tank Closed: | 09/01/2005 |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Steel/carbon steel |
| Material Code: | 0009 |
| Common Name of Substance: | Gasoline |
| Tightness Test Method: | NN |
| Date Test: | Not reported |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | CGMCKENZ |
| Last Modified: | 04/14/2017 |

Equipment Records:

D00 - Pipe Type - No Piping
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
J00 - Dispenser - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
B02 - Tank External Protection - Original Sacrificial Anode
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

**LEONS SUNOCO (Continued)** **U003316873**

H02 - Tank Leak Detection - Interstitial - Manual Monitoring
E00 - Piping Secondary Containment - None
I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

| | |
|---|---|
| Tank Number: | # TWO |
| Tank ID: | 172509 |
| Tank Status: | Closed - Removed |
| Material Name: | Closed - Removed |
| Capacity Gallons: | 5000 |
| Install Date: | 09/01/1994 |
| Date Tank Closed: | 09/01/2005 |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Steel/carbon steel |
| Material Code: | 0009 |
| Common Name of Substance: | Gasoline |
| Tightness Test Method: | NN |
| Date Test: | Not reported |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | CGMCKENZ |
| Last Modified: | 04/14/2017 |

Equipment Records:

E00 - Piping Secondary Containment - None
I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
D00 - Pipe Type - No Piping
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
B02 - Tank External Protection - Original Sacrificial Anode
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
J00 - Dispenser - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G04 - Tank Secondary Containment - Double-Walled (Underground)

| | |
|---|---|
| Tank Number: | 1 |
| Tank ID: | 162493 |
| Tank Status: | Closed - Removed |
| Material Name: | Closed - Removed |
| Capacity Gallons: | 4000 |
| Install Date: | Not reported |
| Date Tank Closed: | 05/01/1993 |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Steel/carbon steel |
| Material Code: | 0009 |
| Common Name of Substance: | Gasoline |
| Tightness Test Method: | 03 |

**LEONS SUNOCO (Continued)** **U003316873**

Date Test: 04/01/1988
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: LJJUDD
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
K01 - Spill Prevention - Catch Basin
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J01 - Dispenser - Pressurized Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None

Tank Number: 2
Tank ID: 162494
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 3000
Install Date: Not reported
Date Tank Closed: 05/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 03
Date Test: 04/01/1988
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: LJJUDD
Last Modified: 04/14/2017

Equipment Records:

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J01 - Dispenser - Pressurized Dispenser
H00 - Tank Leak Detection - None
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Number: 3
Tank ID: 162495
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 3000
Install Date: Not reported
Date Tank Closed: 05/01/1993
Registered: True

**LEONS SUNOCO (Continued)** **U003316873**

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 03
Date Test: 04/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: LJJUDD
Last Modified: 04/14/2017

Equipment Records:

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Number: 4
Tank ID: 162496
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 6000
Install Date: Not reported
Date Tank Closed: 05/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 03
Date Test: 04/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: LJJUDD
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J01 - Dispenser - Pressurized Dispenser

SPILLS:
Facility ID: 9502661
Facility Type: ER

**LEONS SUNOCO (Continued)** **U003316873**

| | |
|---|---|
| Spill Number: | 9502661 |
| DER Facility ID: | 64898 |
| Site ID: | 68000 |
| DEC Region: | 9 |
| Closed Date: | 1995-06-01 |
| Spill Cause: | Deliberate |
| Spill Class: | E6 |
| SWIS: | 1502 |
| Spill Date: | 1995-06-01 |
| Investigator: | COOKE |
| Referred To: | Not reported |
| Reported to Dept: | 1995-06-01 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Gasoline Station or other PBS Facility |
| Spill Notifier: | Citizen |
| Cleanup Ceased: | 1995-06-01 |
| Cleanup Meets Std: | True |
| Last Inspection: | 1995-06-01 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1995-08-02 |
| Spill Record Last Update: | 2002-03-19 |
| Spiller Name: | Not reported |
| Spiller Company: | NONE |
| Spiller Address: | Not reported |
| Spiller Company: | 999 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was JDC 06/01/95: JDC INSPECTED SITE AND FOUND SPILLED MATERIAL WAS BIOTREATMENT LIQUID APPLIED BY NATURES WAY. THIS SPILL IS BEING ADDRESSED UNDER SN 9201141-FC, NO FURTHER ACTION REQUIRED. " |
| Remarks: | "TANKER TRUCK DUMPING LIQUID ONTO GROUND." |

All Materials:

| | |
|---|---|
| Site ID: | 68000 |
| Operable Unit ID: | 1017086 |
| Operable Unit: | 01 |
| Material ID: | 367719 |
| Material Code: | 0066A |
| Material Name: | unknown petroleum |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

**F39** **LEONS SUNOCO** **EDR Hist Auto** **1014537047**
**North** **1270 JEFFERSON AV** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.103 mi.**
**545 ft.** **Site 6 of 7 in cluster F**

**Relative:** EDR Hist Auto
**Lower**

**Actual:** **638 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1970 | LENNYS SUNOCO SERVICE | GASOLINE STATIONS |
| 1971 | HANDSOR LEONARD | Gasoline Service Stations |
| 1972 | HANDSOR LEONARD | Gasoline Service Stations |
| 1973 | HANDSOR LEONARD | Gasoline Service Stations |
| 1974 | HANDSOR LEONARD | Gasoline Service Stations |
| 1975 | LENNYS SUNORO SERVICE | GASOLINE STATIONS |
| 1976 | LENNYS SUNOCO SERVICE INC | Gasoline Service Stations |
| 1977 | LENNYS SUNOCO SERVICE INC | Gasoline Service Stations |
| 1978 | LENNYS SUNOCO SERVICE INC | Gasoline Service Stations |
| 1979 | LENNYS SUNOCO SERVICE INC | Gasoline Service Stations |
| 1980 | LENNYS SUNOCO SERVICE INC | GASOLINE STATIONS |
| 1980 | LENNYS SUNOCO SERVICE INC | Gasoline Service Stations |
| 1985 | LEONS SUNOCO SERVICE INC | GASOLINE STATIONS |
| 1986 | LEONS SINOCO | Gasoline Service Stations |
| 1987 | LEONS SUNOCO | Gasoline Service Stations |
| 1987 | LEONS SINOCO | Gasoline Service Stations |
| 1988 | LEONS SUNOCO | Gasoline Service Stations |
| 1989 | LEONS SUNOCO | Gasoline Service Stations |
| 1990 | LEONS SUNOCO | Gasoline Service Stations |
| 1991 | LEONS SUNOCO | Gasoline Service Stations |
| 1992 | LEONS SUNOCO SERVICE INC | GASOLINE STATIONS |
| 1992 | LEONS SUNOCO | Gasoline Service Stations |
| 1993 | LEONS SUNOCO | Gasoline Service Stations |

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**F40** **SUNOCO SERVICE STATION** **RCRA NonGen / NLR** **1000329159**
**North** **1270 JEFFERSON AVE** **FINDS** **NYD000701557**
**< 1/8** **BUFFALO, NY 14208** **ECHO**
**0.103 mi.**
**545 ft.** **Site 7 of 7 in cluster F**

**Relative:** RCRA NonGen / NLR:
**Lower**

**Actual:** **638 ft.**

| | |
|---|---|
| Date form received by agency: | 01/01/2007 |
| Facility name: | SUNOCO SERVICE STATION |
| Facility address: | 1270 JEFFERSON AVE<br>BUFFALO, NY 14208-2125 |
| EPA ID: | NYD000701557 |
| Mailing address: | JEFFERSON AVE<br>BUFFALO, NY 14208 |
| Contact: | Not reported |
| Contact address: | JEFFERSON AVE<br>BUFFALO, NY 14208 |
| Contact country: | US |
| Contact telephone: | Not reported |
| Contact email: | Not reported |
| EPA Region: | 02 |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

Owner/Operator Summary:
Owner/operator name: SUN OIL COMPANY OF PENNSYLVANIA

**SUNOCO SERVICE STATION (Continued)** **1000329159**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: SUN OIL COMPANY OF PENNSYLVANIA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: SUNOCO SERVICE STATION
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: SUNOCO SERVICE STATION
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Site name: SUNOCO SERVICE STATION
Classification: Large Quantity Generator

. Waste code: D000

**SUNOCO SERVICE STATION (Continued)** **1000329159**

. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110004328950

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000329159
Registry ID: 110004328950
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004328950

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**41**
**ENE**
**< 1/8**
**0.106 mi.**
**558 ft.**

**JONES S E & SON GARAGE** **EDR Hist Auto** **1014538909**
**46 KINGSLEY ST** **N/A**
**BUFFALO, NY**

**Relative:**
**Lower**

**Actual:**
**639 ft.**

EDR Hist Auto

| Year: | Name: | Type: |
|---|---|---|
| 1955 | JONES S E & SON GARAGA | AUTOMOBILE GARAGES |
| 1960 | JONES S E & SON GARAGE | AUTOMOBILE GARAGES |

---

**G42**
**South**
**< 1/8**
**0.108 mi.**
**570 ft.**

**DEMO PROJECT** **NY Spills** **S113819710**
**1132 JEFFERSON AVE** **N/A**
**BUFFALO, NY**

**Site 2 of 8 in cluster G**

**Relative:**
**Higher**

**Actual:**
**647 ft.**

SPILLS:
Facility ID: 1304734
Facility Type: ER
Spill Number: 1304734
DER Facility ID: 440418
Site ID: 485270
DEC Region: 9
Closed Date: 2013-07-31
Spill Cause: Equipment Failure
Spill Class: Not reported

**DEMO PROJECT (Continued)** **S113819710**

| | |
|---|---|
| SWIS: | 1502 |
| Spill Date: | 2013-07-31 |
| Investigator: | TDJOHNSO |
| Referred To: | Not reported |
| Reported to Dept: | 2013-07-31 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Private Dwelling |
| Spill Notifier: | Local Agency |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | False |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| UST Trust: | Not reported |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2013-07-31 |
| Spill Record Last Update: | 2013-07-31 |
| Spiller Name: | Not reported |
| Spiller Company: | Not reported |
| Spiller Address: | Not reported |
| Spiller Company: | Not reported |
| Contact Name: | Not reported |
| DEC Memo: | "07/31/13 TDJ SPOKE WITH MIKE SHEIBER WITH CITY OF BUFFALO WHO WAS NOT SURE IF TANK WAS CALLED IN. AFTER SPILL REPORT WAS STARTED FOUND SPILL#1304558 HAD BEEN CALLED IN BACK ON 7/26/13." |
| Remarks: | "During City of Buffalo demolition project ust was found. Mike Scheiber with City said he saw contaminated soil and reported it." |

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**G43** **EMPTY COMMERCIAL BUILDING** **NY Spills** **S113819555**
**South** **1132 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.108 mi.**
**570 ft.** **Site 3 of 8 in cluster G**

**Relative:**
**Higher**

**Actual:**
**647 ft.**

SPILLS:

| | |
|---|---|
| Facility ID: | 1304558 |
| Facility Type: | ER |
| Spill Number: | 1304558 |
| DER Facility ID: | 440418 |
| Site ID: | 485087 |
| DEC Region: | 9 |
| Closed Date: | 2013-08-22 |
| Spill Cause: | Other |
| Spill Class: | D4 |
| SWIS: | 1502 |
| Spill Date: | 2013-07-25 |
| Investigator: | FXGALLEG |
| Referred To: | Not reported |
| Reported to Dept: | 2013-07-26 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Commercial/Industrial |
| Spill Notifier: | Other |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | False |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| UST Trust: | False |

**EMPTY COMMERCIAL BUILDING (Continued)** **S113819555**

| | |
|---|---|
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2013-07-26 |
| Spill Record Last Update: | 2013-08-22 |
| Spiller Name: | Not reported |
| Spiller Company: | EMPTY COMMERCIAL BUILDING |
| Spiller Address: | Not reported |
| Spiller Company: | 999 |
| Contact Name: | ROG CHOPRA |
| DEC Memo: | "07/26/13 TDJ SPOKE WITH CHAD WITH NIAGRA ENVIRONMENTAL (716)289-6268 WHO STATED THAT UST TANK WAS ENCOUNTERD WHILE LOOKING FOR WATER LINE. CONTAMINATION WAS FOUND AROUND IT AND THE TANK WAS APPROX. 1/2 FULL. LIQUID SAMPLE WAS TAKEN FOR ANALYSIS. 8/6/13 FG SITE INSPECTION. MET RAJ CHOPRA ON SITE. UST HAD BEEN REMOVED AND CONTAMINATION WAS REMOVED AND BEING TAKEN TO THE TONAWANDA LANDFILL. THE SOUTH AND EAST WALLS WERE CLEAN. ADDITIONAL SOIL WAS TO BE REMOVED. EXCAVATION SAMPLES WILL BE COLLECTED FOR 8260 AND 8270 STARS AND DISPOSAL RECEIPTS WILL BE PROVIDED. THE CITY IS DOING THE WORK AS PART OF THE DEMOLITION BUT THEY DO NOT OWN THE PROPERTY. 8/16/13 ANALYTICAL REPORT PROVIDED FOR THE EXCAVATION SAMPLES. ALL RESULTS ARE BELOW CP51 LEVELS. 8/22/13 CEM PROVIDED THE MANIFEST FOR THE SOIL THAT WAS REMOVED FROM THE SITE WHICH WAS TAKEN TO THE BIOREMEDIATION FACILITY AT 795 EAST PARK DRIVE, TONAWANDA, NY. NO FURTHER WORK IS REQUIRED. THE SITE IS CLOSED." |
| Remarks: | "found 2000 gal ust with product in tank/no loss at this time,soil samples have been taken" |

All Materials:

| | |
|---|---|
| Site ID: | 485087 |
| Operable Unit ID: | 1234757 |
| Operable Unit: | 01 |
| Material ID: | 2233828 |
| Material Code: | 0066A |
| Material Name: | unknown petroleum |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | Not reported |
| Units: | G |
| Recovered: | Not reported |
| Oxygenate: | Not reported |

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**44**
**SE**
**< 1/8**
**0.109 mi.**
**576 ft.**

**NICHTER NORBERT F GARAGE** **EDR Hist Auto** **1014539721**
**29 GERHARDT ST** **N/A**
**BUFFALO, NY**

**Relative:**
**Higher**

**Actual:**
**646 ft.**

EDR Hist Auto

| Year: | Name: | Type: |
|---|---|---|
| 1930 | NICHTER NORBERT F GARAGE | AUTOMOBILE GARAGES |

**H45** **COIN OPERATED LAUNDRY** **EDR Hist Cleaner** **1014536139**
**North** **1276 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY 14208**
**0.116 mi.**
**614 ft.** **Site 1 of 2 in cluster H**

**Relative:** EDR Hist Cleaner
**Lower**

| | Year: | Name: | Type: |
|---|---|---|---|
| **Actual:** **637 ft.** | 1975 | COIN OPERATED LAUNDRY | LAUNDRIES - SELF SERVE |

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**H46** **GRENIER HECTOR AUTO REPR** **EDR Hist Auto** **1014538838**
**North** **1276 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.116 mi.**
**614 ft.** **Site 2 of 2 in cluster H**

**Relative:** EDR Hist Auto
**Lower**

| | Year: | Name: | Type: |
|---|---|---|---|
| **Actual:** **637 ft.** | 1935 | GRENIER HECTOR AUTO REPR | AUTOMOBILE REPAIRING |

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**G47** **THUMANS GARAGE** **LTANKS** **1000693919**
**SSE** **1131 JEFFERSON AVENUE** **NY Spills** **N/A**
**< 1/8** **BUFFALO, NY**
**0.121 mi.**
**639 ft.** **Site 4 of 8 in cluster G**

**Relative:** LTANKS:
**Higher**

| | |
|---|---|
| **Actual:** **648 ft.** Facility ID: | 9104101 |
| Site ID: | 307011 |
| Closed Date: | 1991-07-24 |
| Spill Number: | 9104101 |
| Spill Date: | 1991-07-17 |
| Spill Cause: | Tank Failure |
| Spill Source: | Gasoline Station or other PBS Facility |
| Spill Class: | Not reported |
| Cleanup Ceased: | 1991-07-24 |
| SWIS: | 1502 |
| Investigator: | SORGI |
| Referred To: | Not reported |
| Reported to Dept: | 1991-07-17 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Other |
| Last Inspection: | 1991-07-17 |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1991-07-22 |
| Spill Record Last Update: | 1991-07-24 |
| Spiller Name: | Not reported |
| Spiller Company: | Not reported |
| Spiller Address: | Not reported |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |

**THUMANS GARAGE (Continued)** **1000693919**

Spiller Extention: Not reported
DEC Region: 9
DER Facility ID: 247940
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MJS 07/17/91: MJS SITE INSPECTION. ONE TANK REMOVED SO FAR. SOIL IS CONTAMINATED. SMELLS LIKE COMBINATION OF GASOLINE AND WASTE OIL. SOIL WILL BE STOCKPILED ON PLASTIC AND COVERED. 07/18/91: JDC ON SITE. CONTAMINATED SOIL HAS BEEN REMOVED AND STOCKPILED. OK TO BAKFILL WAS GIVEN. 07/24/91: MJS SITE VISIT. SOIL TAKEN TO BEDC FOR TREATMENT. NO DISPOSAL RECEIPTS REQUIRED. NO FURTHER ACTION NECESSARY. RECOMMEND CLOSURE. "
Remarks: "THREE 1000 GALLON TANKS - FOUND CONTAMINATED SOIL."

All Materials:
Site ID: 307011
Operable Unit ID: 954883
Operable Unit: 01
Material ID: 423198
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Not reported
Recovered: .00
Oxygenate: Not reported

Site ID: 307011
Operable Unit ID: 954883
Operable Unit: 01
Material ID: 423197
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Not reported
Recovered: .00
Oxygenate: Not reported

SPILLS:
Facility ID: 0912370
Facility Type: ER
Spill Number: 0912370
DER Facility ID: 247940
Site ID: 425256
DEC Region: 9
Closed Date: 2010-05-05
Spill Cause: Unknown
Spill Class: D4
SWIS: 1502
Spill Date: 2010-02-25
Investigator: FXGALLEG
Referred To: Not reported
Reported to Dept: 2010-02-25
CID: Not reported

**THUMANS GARAGE (Continued)** **1000693919**

| | |
|---|---|
| Water Affected: | Not reported |
| Spill Source: | Unknown |
| Spill Notifier: | Other |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | False |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2010-02-25 |
| Spill Record Last Update: | 2010-05-05 |
| Spiller Name: | Not reported |
| Spiller Company: | DAVID RAAB |
| Spiller Address: | 362 WAGNER STREET |
| Spiller Company: | 999 |
| Contact Name: | SEAN MITTLEFEHODT |
| DEC Memo: | "3/1/10 FG SPOKE TO SEAN MITTLEFEHLDT WITH LCS. HE SAID HE SHOULD HAVE A REPORT OF FINDINGS READY WITHIN 3 WEEKS AND WILL PROVIDE A COPY TO THE DEPARTMENT. HE IS WORKING FOR M&T AND THEY HAVEN'T FORECLOSED YET BUT MAY HAVE AN INTERESTED BUYER. 4/1/10 LCS SUBMITTED THE PHASE II REPORT. PETROLEUM CONTAMINATION WAS DISCOVERED IN BORINGS ON SITE IN THE AREA OF THE FORMER TANK EXCAVATION. 4/7/10 FG SPOKE TO KEN PAULIN 848-3334 WITH M&T BANK. HE SAID THE BANK IS DECIDING WHETHER OR NOT THEY WILL FORECLOSE ON THE PROPERTY AND WANTS TO KNOW WHAT THE DEPT IS REQUIRING. THE CURRENT OWNER HAS ABANDONED THE PROPERTY DAVID RAAB 362 WAGNER AVE, SLOAN, NY 14212. THE DEPT SENT A LETTER INDICATING THAT ADDITIONAL WORK IS NECESSARY BUT NOT SPECIFICALLY WHAT WORK. FG TOLD MR. PAULIN IT WOULD BE UP TO THE RESPONSIBLE PARTY TO DETERMINE WHAT CLEANUP METHODS THEY WOULD WANT TO USE. MR. PAULIN ASKED TO BE KEPT INFORMED OF THE DEPTS ACTIONS. 5/4/10 FG SPOKE TO DOUG REID WITH LCS 845-6145. HE SAID THEY WILL PROVIDE A RESPONSE WITHIN THE NEXT SEVERAL WEEKS ON WHAT ACTION WILL BE TAKEN ON THE SITE BY MAY 28, 2010. 5/5/10 LCS REQUESTED AN INACTIVE STATUS. THEY DETERMINED THE EXTENT OF CONTAMINATION AND INVESTIGATED POSSIBLE TREATMENT OPTIONS, NONE OF WHICH WERE VIABLE. THE CONTAMINATION IS ENTRAINED IN CLAY/SILT ON THE SITE. THE LEVELS EXCEED TAGM 4046 LEVELS. NO FURTHER WORK IS REQUIRED. THE SITE IS INACTIVE. " |
| Remarks: | "SOIL AND GROUNDWATER SAMPLES BEING TESTED FOR POSSIBLE PETROCHEMICAL CONTAMINATION." |

All Materials:

| | |
|---|---|
| Site ID: | 425256 |
| Operable Unit ID: | 1180979 |
| Operable Unit: | 01 |
| Material ID: | 2175036 |
| Material Code: | 0066A |
| Material Name: | unknown petroleum |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | Not reported |
| Units: | Not reported |
| Recovered: | Not reported |
| Oxygenate: | Not reported |

**G48** **GILLEN & ROHM FILLING STA** **EDR Hist Auto** **1014538064**
**SSE** **1131 JEFFERSON AVE** **N/A**
**< 1/8** **BUFFALO, NY**
**0.121 mi.**
**639 ft.** **Site 5 of 8 in cluster G**

**Relative:** EDR Hist Auto
**Higher**

**Actual:** **648 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1940 | GILLEN & ROHM FILLING STA | GASOLINE AND OIL SERVICE STATIONS |
| 1946 | WISHMAN HARRY FILLING STA | GASOLINE AND OIL SERVICE STATIONS |
| 1946 | THURMAN SYLVESTER AUTO REPR | AUTOMOBILE REPAIRING |
| 1950 | THURMAN SYLVESTER FILLING STA | GASOLINE STATIONS |
| 1955 | CRAIK ALES L GAS STA | GASOLINE STATIONS |
| 1955 | THUMAN SYLVESTER C GAS STA | GASOLINE STATIONS |
| 1960 | ODDOS SUNOCO SERV GAS STA | GASOLINE STATIONS |
| 1960 | THUMANS GARAGE INC AUTO REPR | AUTOMOBILE REPAIRING |
| 1964 | THUMANS GARAGE INC AUTO REPR | AUTOMOBILE REPAIRING |
| 1969 | THUMANS GARAGE INC | General Automotive Repair Shops |
| 1970 | THUMANS GARAGE INC AUTO REPR | AUTOMOBILE REPAIRING |
| 1970 | THUMANS GARAGE INC | General Automotive Repair Shops |
| 1971 | THUMANS GARAGE INC | General Automotive Repair Shops |
| 1972 | THUMANS GARAGE INC | General Automotive Repair Shops |
| 1973 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1974 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1975 | THUMANS GARAGE INC AUTO REPR | AUTOMOBILE REPAIRING |
| 1975 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1976 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1977 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1978 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1979 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1980 | THUMANS GARAGE INC AUTO REPR | AUTOMOBILE REPAIRING |
| 1980 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1982 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1983 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1985 | THUMANS GARAGE INC AUTO REPR | AUTOMOBILE REPAIRING |
| 1985 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1986 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1987 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1988 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1989 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1990 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1991 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1992 | THUMANS GARAGE INC AUTO REPR | AUTOMOBILE REPAIRING & SERVICE |
| 1992 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1993 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1994 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1995 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1996 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1997 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1998 | THUMAN GARAGE AUTO RPR | AUTOMOBILE REPAIRING & SERVICE |
| 1998 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 1999 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 2000 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 2001 | THUMAN GARAGE GENL AUTO REPR SH | AUTOMOBILE REPAIRING & SERVICE |
| 2001 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 2002 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 2003 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 2004 | THUMAN GARAGE INC | General Automotive Repair Shops |

**GILLEN & ROHM FILLING STA (Continued)** **1014538064**

| | | |
|---|---|---|
| 2005 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 2006 | 1131 JEFFERSON AVE INC | General Automotive Repair Shops |
| 2006 | THUMAN GARAGE INC | General Automotive Repair Shops |
| 2007 | THUMANS GARAGE INC | General Automotive Repair Shops |
| 2007 | 1131 JEFFERSON AVE INC | General Automotive Repair Shops |
| 2008 | THUMANS GARAGE INC BRAKE | BRAKE SERVICE |
| 2008 | 1131 JEFFERSON AVE INC | General Automotive Repair Shops |
| 2008 | THUMANS GARAGE INC | General Automotive Repair Shops |
| 2010 | THUMANS GARAGE INC | General Automotive Repair Shops |

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**G49** **THUMANS GARAGE INC** **RCRA-CESQG** **1004758427**
**SSE** **1131 JEFFERSON AVE** **FINDS** **NYD987000502**
**< 1/8** **BUFFALO, NY 14208** **ECHO**
**0.121 mi.** **MANIFEST**
**639 ft.** **Site 6 of 8 in cluster G**

**Relative: Higher**

**Actual: 648 ft.**

RCRA-CESQG:

| | |
|---|---|
| Date form received by agency: | 01/01/2007 |
| Facility name: | THUMANS GARAGE INC |
| Facility address: | 1131 JEFFERSON AVE<br>BUFFALO, NY 14208 |
| EPA ID: | NYD987000502 |
| Mailing address: | JEFFERSON AVE<br>BUFFALO, NY 14208 |
| Contact: | DAVID THUMAN |
| Contact address: | JEFFERSON AVE<br>BUFFALO, NY 14208 |
| Contact country: | US |
| Contact telephone: | 716-883-1166 |
| Contact email: | Not reported |
| EPA Region: | 02 |
| Classification: | Conditionally Exempt Small Quantity Generator |
| Description: | Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | DAVID THUMAN |
| Owner/operator address: | 1131 JEFFERSON AVE<br>BUFFALO, NY 14208 |
| Owner/operator country: | US |
| Owner/operator telephone: | 716-883-1166 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |

**THUMANS GARAGE INC (Continued)** **1004758427**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DAVID THUMAN
Owner/operator address: 1131 JEFFERSON AVE
BUFFALO, NY 14208
Owner/operator country: US
Owner/operator telephone: 716-883-1166
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: THUMANS GARAGE INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 05/04/1992
Site name: THUMANS GARAGE INC
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED

**THUMANS GARAGE INC (Continued)** **1004758427**

SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110004489447

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1004758427 |
| Registry ID: | 110004489447 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110004489447 |

NY MANIFEST:

| | |
|---|---|
| Country: | USA |
| EPA ID: | NYD987000502 |
| Facility Status: | Not reported |
| Location Address 1: | 1131 JEFFERSON AVENUE |
| Code: | BP |
| Location Address 2: | Not reported |
| Total Tanks: | Not reported |
| Location City: | BUFFALO |
| Location State: | NY |
| Location Zip: | 14208 |
| Location Zip 4: | Not reported |

NY MANIFEST:

| | |
|---|---|
| EPAID: | NYD987000502 |
| Mailing Name: | THUMANS GARAGE INCORPORATED |
| Mailing Contact: | DAVID |
| Mailing Address 1: | 1131 JEFFERSON AVENUE |
| Mailing Address 2: | Not reported |
| Mailing City: | BUFFALO |

**THUMANS GARAGE INC (Continued)** **1004758427**

| | |
|---|---|
| Mailing State: | NY |
| Mailing Zip: | 14208 |
| Mailing Zip 4: | Not reported |
| Mailing Country: | USA |
| Mailing Phone: | 7168831166 |

NY MANIFEST:

| | |
|---|---|
| Document ID: | NYC7428824 |
| Manifest Status: | Not reported |
| seq: | Not reported |
| Year: | 2005 |
| Trans1 State ID: | TXR000050930 |
| Trans2 State ID: | MOD095038998 |
| Generator Ship Date: | 12/31/2004 |
| Trans1 Recv Date: | 12/31/2004 |
| Trans2 Recv Date: | 01/05/2005 |
| TSD Site Recv Date: | 01/07/2005 |
| Part A Recv Date: | Not reported |
| Part B Recv Date: | Not reported |
| Generator EPA ID: | NYD987000502 |
| Trans1 EPA ID: | NY13036JE |
| Trans2 EPA ID: | FT97508CA |
| TSDF ID 1: | KYD053348108 |
| TSDF ID 2: | Not reported |
| Manifest Tracking Number: | Not reported |
| Import Indicator: | Not reported |
| Export Indicator: | Not reported |
| Discr Quantity Indicator: | Not reported |
| Discr Type Indicator: | Not reported |
| Discr Residue Indicator: | Not reported |
| Discr Partial Reject Indicator: | Not reported |
| Discr Full Reject Indicator: | Not reported |
| Manifest Ref Number: | Not reported |
| Alt Facility RCRA ID: | Not reported |
| Alt Facility Sign Date: | Not reported |
| MGMT Method Type Code: | Not reported |
| Waste Code: | F003 - UNKNOWN |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Quantity: | 00800 |
| Units: | P - Pounds |
| Number of Containers: | 002 |
| Container Type: | DF - Fiberboard or plastic drums (glass) |
| Handling Method: | B Incineration, heat recovery, burning. |
| Specific Gravity: | 01.00 |

Click this hyperlink while viewing on your computer to access
3 additional NY_MANIFEST: record(s) in the EDR Site Report.

**50**
**NE**
**< 1/8**
**0.124 mi.**
**653 ft.**

**KNIGHT SHELDON G AUTO REPR**
**378 RILEY ST**
**BUFFALO, NY**

**EDR Hist Auto** **1014537033**
**N/A**

**Relative:**
**Lower**

**Actual:**
**638 ft.**

EDR Hist Auto

| Year: | Name: | Type: |
|---|---|---|
| 1940 | KNIGHT SHELDON G AUTO REPR | AUTOMOBILE REPAIRING |

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**G51**
**SSE**
**1/8-1/4**
**0.133 mi.**
**701 ft.**

**Site 7 of 8 in cluster G**

**BUFFALO ENTERPRISE DEVELOPMENT CO**
**1117 JEFFERSON AVE & DODGE ST**
**BUFFALO, NY 14204**

**RCRA NonGen / NLR** **1000552949**
**FINDS** **NYD986953552**
**ECHO**

**Relative:**
**Higher**

**Actual:**
**648 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date form received by agency: | 01/01/2007 |
| Facility name: | BUFFALO ENTERPRISE DEVELOPMENT CO |
| Facility address: | 1117 JEFFERSON AVE & DODGE ST<br>BUFFALO, NY 14204 |
| EPA ID: | NYD986953552 |
| Mailing address: | CITY HALL RM 920<br>BUFFALO, NY 14205 |
| Contact: | Not reported |
| Contact address: | CITY HALL RM 920<br>BUFFALO, NY 14205 |
| Contact country: | US |
| Contact telephone: | Not reported |
| Contact email: | Not reported |
| EPA Region: | 02 |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | BUFFALO ENTERRISE DEVELOPMENT CO |
| Owner/operator address: | 1117 JEFFERSON AVE & DODGE ST<br>BUFFALO, NY 14204 |
| Owner/operator country: | US |
| Owner/operator telephone: | 716-851-5090 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | BUFFALO ENTERPRISE DEVELOPMENT CO |
| Owner/operator address: | 1117 JEFFERSON AVE & DODGE ST<br>BUFFALO, NY 14204 |
| Owner/operator country: | US |
| Owner/operator telephone: | 716-851-5090 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |

**BUFFALO ENTERPRISE DEVELOPMENT CO (Continued)** **1000552949**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: BUFFALO ENTERPRISE DEVELOPMENT CO
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: BUFFALO ENTERPRISE DEVELOPMENT CO
Classification: Not a generator, verified

Date form received by agency: 05/29/1991
Site name: BUFFALO ENTERPRISE DEVELOPMENT CO
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110008051605

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**BUFFALO ENTERPRISE DEVELOPMENT CO (Continued)** **1000552949**

ECHO:
Envid: 1000552949
Registry ID: 110008051605
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110008051605

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**G52** **BEDC** **LTANKS** **S100155500**
**South** **1117 JEFFERSON AVENUE** **N/A**
**1/8-1/4** **BUFFALO, NY**
**0.145 mi.**
**767 ft.** **Site 8 of 8 in cluster G**

**Relative:**
**Higher**

**Actual:**
**649 ft.**

LTANKS:
Facility ID: 9012111
Site ID: 92606
Closed Date: 1992-06-24
Spill Number: 9012111
Spill Date: 1991-02-19
Spill Cause: Tank Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: C3
Cleanup Ceased: 1992-06-24
SWIS: 1502
Investigator: SORGI
Referred To: Not reported
Reported to Dept: 1991-02-19
CID: Not reported
Water Affected: Not reported
Spill Notifier: DEC
Last Inspection: 1991-08-21
Recommended Penalty: False
Meets Standard: True
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1991-02-21
Spill Record Last Update: 1992-11-05
Spiller Name: Not reported
Spiller Company: BUFFALO ENTERPRISES DEVEL
Spiller Address: 920 CITY HALL
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 9
DER Facility ID: 83156
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was
MJS 02/19/91: MJS SITE INSPECTION. SMELLS LIKE GASOLINE. APPARENTLY THE SITE USED TO BE A GAS STATION. IT IS NOW A VACANT LOT. 02/20/91: MJS TELECON WITH THE CITY OF BUFFALO. CITY PLANS TO BUILD A SCHOOL ON THE SITE. 03/08/91: MJS TELECON WITH DAVE STEBBINS FROM BFLO ENTERPRISES DVLPMNT CORP.I TOLD HIM I WILL INSPECT SITE ON MONDAY AND GET BACK TO HIM ABOUT REQUIREMENTS. 03/11/91: 1000 HRS - MJS SITE INSPECTION. TALKE WITH CREW FRON NFG. THEY SAID CONTAMINATION WAS COMING FROM DIRECTION OF VACANT LOT. CONT. THAT THEY DUG OUT FOR GAS LINE WAS STOCKPILED ON SITE ON PLASTIC. 05/06/91: MJS SITE INSPECT. EPS DIGGING TRENCH ALONG JEFFERSON AVE. FINDING A LAYER OF CONTAMINATION. 1-1.5 FT THICK. SMELLS LIKE OLD GASOLINE. EPS TO CONTINUE TRENCHING TO DETERMINE EXTENT OF CONTAMINATION. 05/07/91:

**BEDC (Continued)** **S100155500**

MJS SITE INSPECT. TANK HAS BEEN REMOVED. FURTHER EXC TO SOUTH REVEALED A CONCRETE BOX FILLED WITH WATER AND CONT DEBRIS. LOOKS AS THOUGH WHEN BLDG WAS TORN DOWN EVERYTHING WAS THROWN INTO IT. 05/21/91: TEST PITS DUG EAST OF TRENCHES. SLIGHT ODOR IN ONE. OTHER SHOWED NOTHING. MORE SAMPLES TO BE TAKEN.LETTER TO DAVE STEBBINS. 05/28/91: BORE HOLES AND MONITORING WELLS INSTALLED. FINDING HIGH LEVELS ON H-NU IN SOME BORE HOLES. 05/31/91: MJS RECEIVED FAX FROM CHARLIE ROLL SHOWING PLACEMENTS OF BORE HOLES AND MW AND ASSOCIATED READINGS ON H-NU. APPARENTLY, THUMANS AUTO REPAIR ACROSS DODGE ST HAS 3 USTS (BELIEVED TO BE USED FOR W/O). 06/11/91: MJS,MJH MEETING WITH CHARLIE ROLL AND DAVE STEBBINS. PROPOSED A/G SOIL VENTING SYSTEM ON CONTAMINATED SOIL. 06/24/91: MJS RECEIVED FAX FROM CHARLIE ROLL OF PROPOSAL OF A/G SOIL VENTING SYSTEM. 06/27/91: MJS,MJH MEETING WITH CHARLIE ROLL AND DAVE STEBBINS TO DISCUSS SOIL VENTING PROPOSAL. COMMENTS REVIEWED AND AGREED UPON. C. ROLL TO FORWARD ALL ANALYTICAL WORK AND DISPOSAL RECEIPTS TO DATE. 07/08/91: MJS SITE INSPECT. EPS EXCAVATING CONT LAYER AND STOCKPILING. 500 GAL STORAGE TANK DISCOVERED. 07/09/91: MJS INSPECT. EXCAVATION CONTINUING. TWO MORE STORAGE TANKS FOUND. CONTINUING TO STOCKPILE SOIL. 07/10/91: MJS INSPECT. ANOTHER TANK FOUND. TOTAL OF FIVE HAVE BEEN EXCAVATED. 07/12/91: MJS INSPECT. TOOK SAMPLE FROM 6' BELOW GRADE. HEADSPACE IN JAR INITIALLY AT 150 PPM AND LEVELED AT 75 PPM. TEST PITS TO BE DUG TO DETERMINE DEPTH OF CONT. 07/15/91: MJS INSPECT. EPS DUG TEST PITS ON EXCAVATION FLOOR AND DETERMINED THAT CLAY IS CONT AN ADDITIONAL 2-3 FT DOWN. THIS MATERIAL TO BE DUG OUT. 07/16/91: MJS INSPECT. ADDITIONAL MATERIAL HAS BEEN EXCAVATED AND ADDED TO SOIL PILE. FLOOR DEPTH IS APPROX 10'. THREE COMPOSITE SAMPLES TO BE TAKEN FROM FLOOR AND WALLS AND TESTED FOR 8020 VOLATILES. 07/18/91: MJH SITE VISIT. 4000 UST REMOVED. ISPECTED THUMANS GARAGE - THREE TANKS REMOVED AND 2 TRUCKLOADS OF CONT SOIL STOCKPILED. 07/23/91: MJS SITE VISIT. EXCAVATION HAS BEEN BACKFILLED. EPS BUILDING STORAGE SHED FOR BLOWER SYSTEM. 07/24/91: MJS SITE VISIT. EPS BEGINNING TO BUILD SOIL VENT PILE. BEING LAID OUT ON PLASTIC. STONE HAS BEEN BROUGHT IN FOR LAYER BETWEEN SOIL. FENCE WILL EVENTUALLY BE BUILT AROUND SOIL PILE. 07/25/91: MJS SITE VISIT. CONTINUING TI BUILD SOIL PILE FOR VENT SYSTEM. FENCE BUILT AROUND SHED. 08/05/91: VENT SYSTEM HAS BEEN COMPLETED. SOIL PILES COVERED WITH PLASTIC. BLOWERS INSTALLED. NIAGARA MOHAWK TO INSTALL ELECTRIC SO VENTING CAN BEGIN. 08/19/91: ELECTRICITY HOOKED UP. MJS MEETING WITH EPS. SYSTEM TURNED ON TO TEST. EVERYTHING SEEMS TO RUN SMOOTHLY. 08/20/91: MJS TELECON WITH KEVIN GANEY. SYSTEM TO OFFICIALLY BE TURNED ON 08/21/91. CARBON FILTER TO BE INSTALLED, DETERMINE AIR VELOCITY/ AND TAKE SAMPLES 24-48 HRS AFTER SYSTEM IS RUNNING. 03/16/92: CLOSURE SAMPLING HAS BEGUN. EPS TO RUN ONE SAMPLE TO SEE WHAT THE RESULTS ARE. IF GOOD, THE REST OF THE SAMPLING PLAN WILL COMMENCE. 05/14/92: RECEIVED ALL SAMPLING RESULTS. RESULTS ARE WITHIN GUIDANCE VALUES. MJS TO CLOSE FILE AFTER SAMPLING DIAGRAM IS RECEIVED FRON EPS. 06/05/92: LETTER TO DAVID STEBBINS NOTIFYING THAT FILE WILL BE CLOSED. 06/15/92: MJS TELECON TO LINDA CARR (EPS). MJS ASKED FOR SAMPLING DIAGRAM FOR CLOSURE SAMPLES. 06/17/92: MJS TELECON WITH JIM VREELAND. HE WILL BE REVIEWING HIS FILE AND FORWARDING NEEDED INFO. 06/24/92: RECEIVED NEEDED INFORMATION FOR CLOSURE OF FILE. MJS TO CLOSE FILE. "

Remarks: "NATIONAL FUEL GAS FOUND CONTAMINATED SOIL WHILE DIGGING A TRENCH, LOCATION USED TO BE A GAS STATION"

All Materials:
Site ID: 92606
Operable Unit ID: 951959

**BEDC (Continued)** **S100155500**

Operable Unit: 01
Material ID: 428621
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Not reported
Recovered: .00
Oxygenate: Not reported

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**53** **DIARSENOL COMPANY** **SEMS-ARCHIVE** **1000369446**
**ENE** **84 KINGSLEY STREET** **SHWS** **NYD981187040**
**1/8-1/4** **BUFFALO, NY 14208** **ENG CONTROLS**
**0.149 mi.** **INST CONTROL**
**788 ft.** **RCRA NonGen / NLR**
**MANIFEST**

**Relative:**
**Higher**

**Actual:**
**640 ft.**

SEMS Archive:
Site ID: 202327
EPA ID: NYD981187040
Cong District: 33
FIPS Code: 36029
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 2
Site ID: 202327
EPA ID: NYD981187040
Site Name: DIARSENOL COMPANY
NPL: N
FF: N
OU: 0
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1997-01-31 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 2
Site ID: 202327
EPA ID: NYD981187040
Site Name: DIARSENOL COMPANY
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1986-03-26 00:00:00
Qual: L
Current Action Lead: EPA Perf

**DIARSENOL COMPANY (Continued)** **1000369446**

| | |
|---|---|
| Region: | 2 |
| Site ID: | 202327 |
| EPA ID: | NYD981187040 |
| Site Name: | DIARSENOL COMPANY |
| NPL: | N |
| FF: | N |
| OU: | 0 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 1 |
| Start Date: | 1987-02-19 00:00:00 |
| Finish Date: | 1987-02-23 00:00:00 |
| Qual: | N |
| Current Action Lead: | EPA Perf |

| | |
|---|---|
| Region: | 2 |
| Site ID: | 202327 |
| EPA ID: | NYD981187040 |
| Site Name: | DIARSENOL COMPANY |
| NPL: | N |
| FF: | N |
| OU: | 0 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 2 |
| Start Date: | 1990-10-01 00:00:00 |
| Finish Date: | 1991-02-13 00:00:00 |
| Qual: | N |
| Current Action Lead: | St Perf |

| | |
|---|---|
| Region: | 2 |
| Site ID: | 202327 |
| EPA ID: | NYD981187040 |
| Site Name: | DIARSENOL COMPANY |
| NPL: | N |
| FF: | N |
| OU: | 0 |
| Action Code: | DS |
| Action Name: | DISCVRY |
| SEQ: | 1 |
| Start Date: | 1986-03-26 00:00:00 |
| Finish Date: | 1986-03-26 00:00:00 |
| Qual: | Not reported |
| Current Action Lead: | St Perf |

SHWS:

| | |
|---|---|
| Program: | HW |
| Site Code: | 56621 |
| Classification: | Site is properly closed - requires continued management. |
| Region: | 9 |
| Acres: | 2 |
| HW Code: | 915124 |
| Record Add: | 11/18/1999 |
| Record Upd: | 05/16/2017 |
| Updated By: | CRSTANIS |
| Site Description: | Location: The Diarsenol Co., Kingsley Park Site is located in a |

**DIARSENOL COMPANY (Continued)** **1000369446**

residential neighborhood on Kingsley Street in the City of Buffalo, Erie County. Site Features: The Site is currently a flat, grass covered lot with no buildings. Fencing surrounds much of the Site. Current Zoning and Land Use: The Site remains a City-owned park. Past Use of the Site: The Diarsenol Company reportedly disposed waste materials on this site, which was located adjacent to their former plant site on Kingsley Street. Diarsenol produced medications containing arsenic. The firm began operation in the early 1900's and ceased production in the 1940's. The plant was demolished, the site was graded and covered with topsoil. By 1951 the city had developed a park on the reported disposal area. A Phase II Investigation was conducted in 1989 and found arsenic present on the site. In 1991 NYSDEC excavated and provided off-site disposal of contaminated soils. The removal included the excavation and disposal of 9,569 tons of contaminated non-hazardous materials and 1,980 tons of hazardous materials. A post-remedial Operation,Maintenance and Monitoring Plan (OM&M Plan) is currently in place. A small groundwater collection system was installed which collects shallow groundwater and discharges it to the sanitary sewer. The discharge is monitored by the Buffalo Sewer Authority (BSA). Site Geology and Hydrology: The Site is currently covered with topsoil overlying clean fill and native clay. Minimal shallow-goundwater contamination is still present in an area proximal to the groundwater collection system. Groundwater monitoring has been conducted by the City of Buffalo to verify groundwater flow to the collection system and that it does not pose a problem to the community.

Env Problem: Nature and Extent of Contamination: Remediation at the Site is complete. Prior to remediation, the primary contaminant of concern was arsenic in soil and groundwater. Removal of waste and impacted soils has removed the threat of arsenic contamination to the community. Shallow groundwater is directed towards a collection system for discharge to the City sewer. Groundwater and Site IC/EC Certification is on a 5-year schedule for review, and Disharge water from the collection system is assessed annually and is not considered a threat to the environment.

Health Problem: Remedial activities to address soil contamination conducted at the site and at some nearby off-site properties have effectively reduced the potential for exposure to site-related contaminants. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Dump: True
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: unknown
Disp Term: 1951
Lat/Long: 42:54:32:0 / 78:51:04:0
Dell: False
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 11/18/1999 12:00:00 PM
Updated By: INITIAL
Own Op: Disp. Owner
Sub Type: NNN
Owner Name: Not reported
Owner Company: DIARSENOL COMPANY
Owner Address: Not reported

**DIARSENOL COMPANY (Continued)** **1000369446**

| | |
|---|---|
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | ZZ |
| Owner Country: | United States of America |
| Own Op: | Owner |
| Sub Type: | C01 |
| Owner Name: | Francisco Guzman |
| Owner Company: | City of Buffalo |
| Owner Address: | ROOM 201, CITY HALL |
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | BUFFALO, NY 14202 |
| Owner Country: | United States of America |
| Own Op: | On-Site Operator |
| Sub Type: | NNN |
| Owner Name: | Not reported |
| Owner Company: | Diarsenol Company |
| Owner Address: | 84 Kingsley Street |
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | Buffalo, NY 14208 |
| Owner Country: | United States of America |
| Own Op: | On-Site Operator |
| Sub Type: | C01 |
| Owner Name: | Not reported |
| Owner Company: | DIARSENOL COMPANY |
| Owner Address: | 84 KINGSLEY STREET |
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | BUFFALO, NY |
| Owner Country: | United States of America |
| HW Code: | 915124 |
| Waste Type: | ARSENIC |
| Waste Quantity: | UNKNOWN |
| Waste Code: | Not reported |
| Crossref ID: | NYD981187040 |
| Cross Ref Type Code: | 05 |
| Cross Ref Type: | EPA Site ID |
| Record Added Date: | 11/18/1999 12:00:00 PM |
| Record Updated: | 5/10/2001 4:31:00 PM |
| Updated By: | REGTRANS |

ENG CONTROLS:

| | |
|---|---|
| Site Code: | 56621 |
| HW Code: | 915124 |
| Control Code: | 17 |
| Control Type: | ENG |
| Date Record Added: | 07/14/2004 |
| Date Rec Updated: | 10/28/2011 |
| Updated By: | LSZINOMA |
| Site Description: | Location: The Diarsenol Co., Kingsley Park Site is located in a residential neighborhood on Kingsley Street in the City of Buffalo, Erie County. Site Features: The Site is currently a flat, grass covered lot with no buildings. Fencing surrounds much of the Site. Current Zoning and Land Use: The Site remains a City-owned park. Past Use of the Site: The Diarsenol Company reportedly disposed waste materials on this site, which was located adjacent to their former plant site on Kingsley Street. Diarsenol produced medications containing arsenic. The firm began operation in the early 1900's and ceased production in the 1940's. The plant was demolished, the site was graded and covered with topsoil. By 1951 the city had developed a |

**DIARSENOL COMPANY (Continued)** **1000369446**

park on the reported disposal area. A Phase II Investigation was conducted in 1989 and found arsenic present on the site. In 1991 NYSDEC excavated and provided off-site disposal of contaminated soils. The removal included the excavation and disposal of 9,569 tons of contaminated non-hazardous materials and 1,980 tons of hazardous materials. A post-remedial Operation,Maintenance and Monitoring Plan (OM&M Plan) is currently in place. A small groundwater collection system was installed which collects shallow groundwater and discharges it to the sanitary sewer. The discharge is monitored by the Buffalo Sewer Authority (BSA). Site Geology and Hydrology: The Site is currently covered with topsoil overlying clean fill and native clay. Minimal shallow-goundwater contamination is still present in an area proximal to the groundwater collection system. Groundwater monitoring has been conducted by the City of Buffalo to verify groundwater flow to the collection system and that it does not pose a problem to the community.

Env Problem: Nature and Extent of Contamination: Remediation at the Site is complete. Prior to remediation, the primary contaminant of concern was arsenic in soil and groundwater. Removal of waste and impacted soils has removed the threat of arsenic contamination to the community. Shallow groundwater is directed towards a collection system for discharge to the City sewer. Groundwater and Site IC/EC Certification is on a 5-year schedule for review, and Disharge water from the collection system is assessed annually and is not considered a threat to the environment.

Health Problem: Remedial activities to address soil contamination conducted at the site and at some nearby off-site properties have effectively reduced the potential for exposure to site-related contaminants. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Dump: True
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: unknown
Disp Term: 1951
Lat/Long: 42:54:32:0 / 78:51:04:0
Dell: False
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 11/18/1999 12:00:00 PM
Updated By: INITIAL
Own Op: Disp. Owner
Sub Type: NNN
Owner Name: Not reported
Owner Company: DIARSENOL COMPANY
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: ZZ
Owner Country: United States of America
Own Op: Owner
Sub Type: C01
Owner Name: Francisco Guzman
Owner Company: City of Buffalo
Owner Address: ROOM 201, CITY HALL
Owner Addr2: Not reported
Owner City,St,Zip: BUFFALO, NY 14202

**DIARSENOL COMPANY (Continued)** **1000369446**

Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: NNN
Owner Name: Not reported
Owner Company: Diarsenol Company
Owner Address: 84 Kingsley Street
Owner Addr2: Not reported
Owner City,St,Zip: Buffalo, NY 14208
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: C01
Owner Name: Not reported
Owner Company: DIARSENOL COMPANY
Owner Address: 84 KINGSLEY STREET
Owner Addr2: Not reported
Owner City,St,Zip: BUFFALO, NY
Owner Country: United States of America
HW Code: 915124
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: NYD981187040
Cross Ref Type Code: 05
Cross Ref Type: EPA Site ID
Record Added Date: 11/18/1999 12:00:00 PM
Record Updated: 5/10/2001 4:31:00 PM
Updated By: REGTRANS

INST CONTROL:
Site Code: 56621
Control Name: Deed Restriction
HW Code: 915124
Control Code: A
Control Type: INST
Dt record added: 07/14/2004
Dt rec updated: 10/28/2011
Updated By: LSZINOMA
Site Code: 56621
Site Description: Location: The Diarsenol Co., Kingsley Park Site is located in a residential neighborhood on Kingsley Street in the City of Buffalo, Erie County. Site Features: The Site is currently a flat, grass covered lot with no buildings. Fencing surrounds much of the Site. Current Zoning and Land Use: The Site remains a City-owned park. Past Use of the Site: The Diarsenol Company reportedly disposed waste materials on this site, which was located adjacent to their former plant site on Kingsley Street. Diarsenol produced medications containing arsenic. The firm began operation in the early 1900’s and ceased production in the 1940’s. The plant was demolished, the site was graded and covered with topsoil. By 1951 the city had developed a park on the reported disposal area. A Phase II Investigation was conducted in 1989 and found arsenic present on the site. In 1991 NYSDEC excavated and provided off-site disposal of contaminated soils. The removal included the excavation and disposal of 9,569 tons of contaminated non-hazardous materials and 1,980 tons of hazardous materials. A post-remedial Operation,Maintenance and Monitoring Plan (OM&M Plan) is currently in place. A small groundwater collection system was installed which collects shallow groundwater and

**DIARSENOL COMPANY (Continued)** **1000369446**

discharges it to the sanitary sewer. The discharge is monitored by the Buffalo Sewer Authority (BSA). Site Geology and Hydrology: The Site is currently covered with topsoil overlying clean fill and native clay. Minimal shallow-goundwater contamination is still present in an area proximal to the groundwater collection system. Groundwater monitoring has been conducted by the City of Buffalo to verify groundwater flow to the collection system and that it does not pose a problem to the community.

Env Problem: Nature and Extent of Contamination: Remediation at the Site is complete. Prior to remediation, the primary contaminant of concern was arsenic in soil and groundwater. Removal of waste and impacted soils has removed the threat of arsenic contamination to the community. Shallow groundwater is directed towards a collection system for discharge to the City sewer. Groundwater and Site IC/EC Certification is on a 5-year schedule for review, and Disharge water from the collection system is assessed annually and is not considered a threat to the environment.

Health Problem: Remedial activities to address soil contamination conducted at the site and at some nearby off-site properties have effectively reduced the potential for exposure to site-related contaminants. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination.

Dump: True
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: unknown
Disp Term: 1951
Lat/Long: 42:54:32:0 / 78:51:04:0
Dell: False
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 11/18/1999 12:00:00 PM
Updated By: INITIAL
Own Op: Disp. Owner
Sub Type: NNN
Owner Name: Not reported
Owner Company: DIARSENOL COMPANY
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: ZZ
Owner Country: United States of America
Own Op: Owner
Sub Type: C01
Owner Name: Francisco Guzman
Owner Company: City of Buffalo
Owner Address: ROOM 201, CITY HALL
Owner Addr2: Not reported
Owner City,St,Zip: BUFFALO, NY 14202
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: NNN
Owner Name: Not reported
Owner Company: Diarsenol Company
Owner Address: 84 Kingsley Street
Owner Addr2: Not reported
Owner City,St,Zip: Buffalo, NY 14208

**DIARSENOL COMPANY (Continued)** **1000369446**

Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: C01
Owner Name: Not reported
Owner Company: DIARSENOL COMPANY
Owner Address: 84 KINGSLEY STREET
Owner Addr2: Not reported
Owner City,St,Zip: BUFFALO, NY
Owner Country: United States of America
HW Code: 915124
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: NYD981187040
Cross Ref Type Code: 05
Cross Ref Type: EPA Site ID
Record Added Date: 11/18/1999 12:00:00 PM
Record Updated: 5/10/2001 4:31:00 PM
Updated By: REGTRANS

Site Code: 56621
Control Name: O&M Plan
HW Code: 915124
Control Code: 33
Control Type: INST
Dt record added: 07/14/2004
Dt rec updated: 10/28/2011
Updated By: LSZINOMA
Site Code: 56621
Site Description: Location: The Diarsenol Co., Kingsley Park Site is located in a residential neighborhood on Kingsley Street in the City of Buffalo, Erie County. Site Features: The Site is currently a flat, grass covered lot with no buildings. Fencing surrounds much of the Site. Current Zoning and Land Use: The Site remains a City-owned park. Past Use of the Site: The Diarsenol Company reportedly disposed waste materials on this site, which was located adjacent to their former plant site on Kingsley Street. Diarsenol produced medications containing arsenic. The firm began operation in the early 1900's and ceased production in the 1940's. The plant was demolished, the site was graded and covered with topsoil. By 1951 the city had developed a park on the reported disposal area. A Phase II Investigation was conducted in 1989 and found arsenic present on the site. In 1991 NYSDEC excavated and provided off-site disposal of contaminated soils. The removal included the excavation and disposal of 9,569 tons of contaminated non-hazardous materials and 1,980 tons of hazardous materials. A post-remedial Operation,Maintenance and Monitoring Plan (OM&M Plan) is currently in place. A small groundwater collection system was installed which collects shallow groundwater and discharges it to the sanitary sewer. The discharge is monitored by the Buffalo Sewer Authority (BSA). Site Geology and Hydrology: The Site is currently covered with topsoil overlying clean fill and native clay. Minimal shallow-goundwater contamination is still present in an area proximal to the groundwater collection system. Groundwater monitoring has been conducted by the City of Buffalo to verify groundwater flow to the collection system and that it does not pose a problem to the community.
Env Problem: Nature and Extent of Contamination: Remediation at the Site is

**DIARSENOL COMPANY (Continued)** **1000369446**

complete. Prior to remediation, the primary contaminant of concern was arsenic in soil and groundwater. Removal of waste and impacted soils has removed the threat of arsenic contamination to the community. Shallow groundwater is directed towards a collection system for discharge to the City sewer. Groundwater and Site IC/EC Certification is on a 5-year schedule for review, and Disharge water from the collection system is assessed annually and is not considered a threat to the environment.

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Dump: True
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: unknown
Disp Term: 1951
Lat/Long: 42:54:32:0 / 78:51:04:0
Dell: False
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 11/18/1999 12:00:00 PM
Updated By: INITIAL
Own Op: Disp. Owner
Sub Type: NNN
Owner Name: Not reported
Owner Company: DIARSENOL COMPANY
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: ZZ
Owner Country: United States of America
Own Op: Owner
Sub Type: C01
Owner Name: Francisco Guzman
Owner Company: City of Buffalo
Owner Address: ROOM 201, CITY HALL
Owner Addr2: Not reported
Owner City,St,Zip: BUFFALO, NY 14202
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: NNN
Owner Name: Not reported
Owner Company: Diarsenol Company
Owner Address: 84 Kingsley Street
Owner Addr2: Not reported
Owner City,St,Zip: Buffalo, NY 14208
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: C01
Owner Name: Not reported
Owner Company: DIARSENOL COMPANY
Owner Address: 84 KINGSLEY STREET
Owner Addr2: Not reported
Owner City,St,Zip: BUFFALO, NY
Owner Country: United States of America

**DIARSENOL COMPANY (Continued)** **1000369446**

HW Code: 915124
Waste Type: ARSENIC
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: NYD981187040
Cross Ref Type Code: 05
Cross Ref Type: EPA Site ID
Record Added Date: 11/18/1999 12:00:00 PM
Record Updated: 5/10/2001 4:31:00 PM
Updated By: REGTRANS

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: BUFFALO CITY OF - DIARSENOL KINGSLEY PK
Facility address: 60-86 KINGSLEY ST
BUFFALO, NY 14208-2142
EPA ID: NYD981187040
Mailing address: WOLF RD - RM 423
ALBANY, NY 12233
Contact: Not reported
Contact address: WOLF RD - RM 423
ALBANY, NY 12233
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CITY OF BUFFALO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CITY OF BUFFALO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

**DIARSENOL COMPANY (Continued)** **1000369446**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: BUFFALO CITY OF - DIARSENOL KINGSLEY PK
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: BUFFALO CITY OF - DIARSENOL KINGSLEY PK
Classification: Not a generator, verified

Date form received by agency: 02/11/1992
Site name: NEW YORK STATE DEPT ENV C DIARSENOL
Classification: Large Quantity Generator

Date form received by agency: 04/22/1991
Site name: BUFFALO CITY OF - DIARSENOL KINGSLEY PK
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NYD981187040
Facility Status: Not reported
Location Address 1: 60-86 KINGSLEY ST
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BUFFALO
Location State: NY
Location Zip: 14208
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD981187040
Mailing Name: NYSDEC
Mailing Contact: NYSDEC
Mailing Address 1: 50 WOLF RD RM 208

**DIARSENOL COMPANY (Continued)** **1000369446**

| | |
|---|---|
| Mailing Address 2: | Not reported |
| Mailing City: | ALBANY |
| Mailing State: | NY |
| Mailing Zip: | 12233 |
| Mailing Zip 4: | Not reported |
| Mailing Country: | USA |
| Mailing Phone: | 5184579280 |

NY MANIFEST:

| | |
|---|---|
| Document ID: | MIA2549368 |
| Manifest Status: | C |
| seq: | Not reported |
| Year: | 1991 |
| Trans1 State ID: | Not reported |
| Trans2 State ID: | Not reported |
| Generator Ship Date: | 12/23/1991 |
| Trans1 Recv Date: | 12/23/1991 |
| Trans2 Recv Date: | / / |
| TSD Site Recv Date: | 12/24/1991 |
| Part A Recv Date: | / / |
| Part B Recv Date: | 01/09/1992 |
| Generator EPA ID: | NYD981187040 |
| Trans1 EPA ID: | OHD986974780 |
| Trans2 EPA ID: | Not reported |
| TSDF ID 1: | MID000724831 |
| TSDF ID 2: | Not reported |
| Manifest Tracking Number: | Not reported |
| Import Indicator: | Not reported |
| Export Indicator: | Not reported |
| Discr Quantity Indicator: | Not reported |
| Discr Type Indicator: | Not reported |
| Discr Residue Indicator: | Not reported |
| Discr Partial Reject Indicator: | Not reported |
| Discr Full Reject Indicator: | Not reported |
| Manifest Ref Number: | Not reported |
| Alt Facility RCRA ID: | Not reported |
| Alt Facility Sign Date: | Not reported |
| MGMT Method Type Code: | Not reported |
| Waste Code: | D004 - ARSENIC 5.0 MG/L TCLP |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Quantity: | 00025 |
| Units: | T - Tons |
| Number of Containers: | 001 |
| Container Type: | DT - Dump trucks |
| Handling Method: | L Landfill. |
| Specific Gravity: | 100 |

Click this hyperlink while viewing on your computer to access
68 additional NY_MANIFEST: record(s) in the EDR Site Report.

**54**
**SW**
**1/8-1/4**
**0.167 mi.**
**883 ft.**

**BUFFALO CITY OF - WAR MEMORIAL STADIUM**
**295 DODGE ST**
**BUFFALO, NY 14208**

**RCRA NonGen / NLR**
**FINDS**
**ECHO**
**MANIFEST**

**1000227759**
**NYD982790487**

**Relative:**
**Higher**

**Actual:**
**657 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date form received by agency: | 01/01/2007 |
| Facility name: | BUFFALO CITY OF - WAR MEMORIAL STADIUM |
| Facility address: | 295 DODGE ST<br>BUFFALO, NY 14208-2306 |
| EPA ID: | NYD982790487 |
| Mailing address: | RM 290 CITY HALL<br>BUFFALO, NY 14202 |
| Contact: | Not reported |
| Contact address: | RM 290 CITY HALL<br>BUFFALO, NY 14202 |
| Contact country: | US |
| Contact telephone: | Not reported |
| Contact email: | Not reported |
| EPA Region: | 02 |
| Land type: | Facility is not located on Indian land. Additional information is not known. |
| Classification: | Non-Generator |
| Description: | Handler: Non-Generators do not presently generate hazardous waste |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | CITY OF BUFFALO |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, WY 99999 |
| Owner/operator country: | US |
| Owner/operator telephone: | 212-555-1212 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | CITY OF BUFFALO |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, WY 99999 |
| Owner/operator country: | US |
| Owner/operator telephone: | 212-555-1212 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |

**BUFFALO CITY OF - WAR MEMORIAL STADIUM (Continued)** **1000227759**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: BUFFALO CITY OF - WAR MEMORIAL STADIUM
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: BUFFALO CITY OF - WAR MEMORIAL STADIUM
Classification: Not a generator, verified

Date form received by agency: 10/12/1989
Site name: BUFFALO CITY OF - WAR MEMORIAL STADIUM
Classification: Large Quantity Generator

. Waste code: X003
. Waste name: OTHER STATE REGULATED WASTES [i.e., DIESEL FUEL, GASOLINE AND HOME HEATING OIL]

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 04/30/1993
Date achieved compliance: 08/04/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 08/04/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1200
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/30/1993
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 08/04/1993
Evaluation lead agency: State

FINDS:

Registry ID: 110004433453

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

**BUFFALO CITY OF - WAR MEMORIAL STADIUM (Continued)** **1000227759**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000227759 |
| Registry ID: | 110004433453 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110004433453 |

NY MANIFEST:

| | |
|---|---|
| Country: | USA |
| EPA ID: | NYD982790487 |
| Facility Status: | Not reported |
| Location Address 1: | 295 DODGE STREET |
| Code: | BP |
| Location Address 2: | Not reported |
| Total Tanks: | Not reported |
| Location City: | BUFFALO |
| Location State: | NY |
| Location Zip: | 14208 |
| Location Zip 4: | Not reported |

NY MANIFEST:

| | |
|---|---|
| EPAID: | NYD982790487 |
| Mailing Name: | BUFFALO CITY OF |
| Mailing Contact: | BUFFALO CITY OF |
| Mailing Address 1: | DEPT OF STREET SANITATION-218 |
| Mailing Address 2: | Not reported |
| Mailing City: | CITY HALL-BUFFALO |
| Mailing State: | NY |
| Mailing Zip: | 14202 |
| Mailing Zip 4: | Not reported |
| Mailing Country: | USA |
| Mailing Phone: | 7168515039 |

NY MANIFEST:

| | |
|---|---|
| Document ID: | NYB4514391 |
| Manifest Status: | K |
| seq: | Not reported |
| Year: | 1992 |
| Trans1 State ID: | OHT400BS |
| Trans2 State ID: | Not reported |
| Generator Ship Date: | 09/22/1992 |
| Trans1 Recv Date: | 09/22/1992 |
| Trans2 Recv Date: | / / |
| TSD Site Recv Date: | 09/29/1992 |
| Part A Recv Date: | / / |
| Part B Recv Date: | 11/23/1992 |
| Generator EPA ID: | NYD982790487 |
| Trans1 EPA ID: | OHD987012838 |

**BUFFALO CITY OF - WAR MEMORIAL STADIUM (Continued)** **1000227759**

| | |
|---|---|
| Trans2 EPA ID: | Not reported |
| TSDF ID 1: | OHD981100969 |
| TSDF ID 2: | Not reported |
| Manifest Tracking Number: | Not reported |
| Import Indicator: | Not reported |
| Export Indicator: | Not reported |
| Discr Quantity Indicator: | Not reported |
| Discr Type Indicator: | Not reported |
| Discr Residue Indicator: | Not reported |
| Discr Partial Reject Indicator: | Not reported |
| Discr Full Reject Indicator: | Not reported |
| Manifest Ref Number: | Not reported |
| Alt Facility RCRA ID: | Not reported |
| Alt Facility Sign Date: | Not reported |
| MGMT Method Type Code: | Not reported |
| Waste Code: | B007 - OTHER MISCELLANEOUS PCB WASTES |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Waste Code: | Not reported |
| Quantity: | 02272 |
| Units: | K - Kilograms (2.2 pounds) |
| Number of Containers: | 008 |
| Container Type: | DM - Metal drums, barrels |
| Handling Method: | L Landfill. |
| Specific Gravity: | 100 |

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

---

**55**
**North**
**1/8-1/4**
**0.180 mi.**
**949 ft.**

**Relative:**
**Lower**

**Actual:**
**637 ft.**

**FAMILY DOLLAR #1551** **RCRA-CESQG** **1016974667**
**1307 JEFERSON AVE** **NYR000211268**
**BUFFALO, NY 14208**

RCRA-CESQG:

| | |
|---|---|
| Date form received by agency: | 07/28/2014 |
| Facility name: | FAMILY DOLLAR #1551 |
| Facility address: | 1307 JEFERSON AVE<br>BUFFALO, NY 14208-2102 |
| EPA ID: | NYR000211268 |
| Mailing address: | PO BOX 1017<br>CHARLOTTE, NC 28201 |
| Contact: | KEVIN STRAIGHT |
| Contact address: | PO BOX 1017<br>CHARLOTTE, NC 28201 |
| Contact country: | US |
| Contact telephone: | 704-708-1909 |
| Contact email: | KSTRAIGHT@FAMILYDOLLAR.COM |
| EPA Region: | 02 |
| Classification: | Conditionally Exempt Small Quantity Generator |
| Description: | Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous |

**FAMILY DOLLAR #1551 (Continued)** **1016974667**

waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | FAMILY DOLLAR STORES |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | US |
| Owner/operator telephone: | Not reported |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 11/17/1988 |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | JEFFERSON UTICA GROUP INC |
| Owner/operator address: | MAIN ST |
| | BUFFALO, NY 14203 |
| Owner/operator country: | US |
| Owner/operator telephone: | 716-854-0060 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 06/21/1988 |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |

. Waste code: D001

**FAMILY DOLLAR #1551 (Continued)** **1016974667**

. Waste name: IGNITABLE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

Violation Status: No violations found

---

**I56** **STAN MAKOWSKI ECC NO. 50** **UST** **U003400087**
**South** **1095 JEFFERSON AVE.** **N/A**
**1/8-1/4** **BUFFALO, NY 14208**
**0.225 mi.**
**1186 ft.** **Site 1 of 2 in cluster I**

**Relative:**
**Higher**

**Actual:**
**661 ft.**

UST:
Id/Status: 9-600403 / Active
Program Type: PBS
Region: STATE
DEC Region: 9
Expiration Date: 08/14/2018
UTM X: 185368.33558
UTM Y: 4757444.37155
Site Type: School

Affiliation Records:
Site Id: 55251
Affiliation Type: Facility Operator
Company Name: STAN MAKOWSKI ECC NO. 50
Contact Type: Not reported
Contact Name: LAWRENCE WILLIAMS

**STAN MAKOWSKI ECC NO. 50 (Continued)** **U003400087**

| | |
|---|---|
| Address1: | Not reported |
| Address2: | Not reported |
| City: | Not reported |
| State: | NN |
| Zip Code: | Not reported |
| Country Code: | 001 |
| Phone: | (716) 816-4181 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | SLZIEMBA |
| Date Last Modified: | 2014-01-17 |

| | |
|---|---|
| Site Id: | 55251 |
| Affiliation Type: | Emergency Contact |
| Company Name: | CITY OF BUFFALO |
| Contact Type: | Not reported |
| Contact Name: | JOSEPH P. GIUSIANA |
| Address1: | Not reported |
| Address2: | Not reported |
| City: | Not reported |
| State: | NN |
| Zip Code: | Not reported |
| Country Code: | 999 |
| Phone: | (716) 816-3652 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | SJSHELLH |
| Date Last Modified: | 2015-06-08 |

| | |
|---|---|
| Site Id: | 55251 |
| Affiliation Type: | Facility Owner |
| Company Name: | CITY OF BUFFALO |
| Contact Type: | EXECUTIVE DIRECTOR PLANT SERVICES |
| Contact Name: | JOSEPH P. GIUSIANA |
| Address1: | 65 NIAGARA SQUARE, ROOM 901 |
| Address2: | Not reported |
| City: | BUFFALO |
| State: | NY |
| Zip Code: | 14202 |
| Country Code: | 001 |
| Phone: | (716) 851-5275 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | SJSHELLH |
| Date Last Modified: | 2015-06-08 |

| | |
|---|---|
| Site Id: | 55251 |
| Affiliation Type: | Mail Contact |
| Company Name: | BUFFALO BOARD OF EDUCATION |
| Contact Type: | Not reported |
| Contact Name: | JOSEPH P. GIUSIANA |
| Address1: | CITY HALL, ROOM 403 |
| Address2: | Not reported |
| City: | BUFFALO |
| State: | NY |
| Zip Code: | 14202 |
| Country Code: | 001 |

**STAN MAKOWSKI ECC NO. 50 (Continued)** **U003400087**

| | |
|---|---|
| Phone: | (716) 816-3652 |
| EMail: | JGIUSIANA@BUFFALOSCHOOLS.ORG |
| Fax Number: | Not reported |
| Modified By: | SLZIEMBA |
| Date Last Modified: | 2014-01-17 |

Tank Info:

| | |
|---|---|
| Tank Number: | 1 |
| Tank ID: | 173216 |
| Tank Status: | In Service |
| Material Name: | In Service |
| Capacity Gallons: | 8000 |
| Install Date: | 07/01/1995 |
| Date Tank Closed: | Not reported |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Equivalent technology |
| Material Code: | 0001 |
| Common Name of Substance: | #2 Fuel Oil (On-Site Consumption) |
| Tightness Test Method: | NN |
| Date Test: | Not reported |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | LDGOMEZ |
| Last Modified: | 04/14/2017 |

Equipment Records:

C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
B04 - Tank External Protection - Fiberglass
D08 - Pipe Type - Equivalent Technology
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
F05 - Pipe External Protection - Jacketed
E07 - Piping Secondary Containment - Trench Liner
G04 - Tank Secondary Containment - Double-Walled (Underground)

| | |
|---|---|
| Tank Number: | 2 |
| Tank ID: | 173217 |
| Tank Status: | In Service |
| Material Name: | In Service |
| Capacity Gallons: | 8000 |
| Install Date: | 07/01/1995 |
| Date Tank Closed: | Not reported |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Equivalent technology |
| Material Code: | 0001 |
| Common Name of Substance: | #2 Fuel Oil (On-Site Consumption) |
| Tightness Test Method: | NN |

**STAN MAKOWSKI ECC NO. 50 (Continued)** **U003400087**

| | |
|---|---|
| Date Test: | Not reported |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | LDGOMEZ |
| Last Modified: | 04/14/2017 |

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
F05 - Pipe External Protection - Jacketed
E07 - Piping Secondary Containment - Trench Liner
B04 - Tank External Protection - Fiberglass
D08 - Pipe Type - Equivalent Technology
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off

---

**I57** **BUFFALO BOARD OF EDUCATIO** **LTANKS** **S101174767**
**South** **1095 JEFFERSON AT BEST** **N/A**
**1/8-1/4** **BUFFALO, NY**
**0.225 mi.**
**1186 ft.** **Site 2 of 2 in cluster I**

**Relative:**
**Higher**

**Actual:**
**661 ft.**

LTANKS:

| | |
|---|---|
| Facility ID: | 9408233 |
| Site ID: | 279603 |
| Closed Date: | 1996-04-25 |
| Spill Number: | 9408233 |
| Spill Date: | 1994-09-19 |
| Spill Cause: | Tank Failure |
| Spill Source: | Institutional, Educational, Gov., Other |
| Spill Class: | B3 |
| Cleanup Ceased: | Not reported |
| SWIS: | 1502 |
| Investigator: | RMCROSSE |
| Referred To: | Not reported |
| Reported to Dept: | 1994-09-20 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Other |
| Last Inspection: | 1996-01-01 |
| Recommended Penalty: | False |
| Meets Standard: | False |
| UST Involvement: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1994-10-03 |
| Spill Record Last Update: | 2002-03-21 |
| Spiller Name: | DAVID BAKER |
| Spiller Company: | BUFFALO BOARD OF EDUCATIO |
| Spiller Address: | CITY HALL - ROOM 403 |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |

**BUFFALO BOARD OF EDUCATIO (Continued)** **S101174767**

DER Facility ID: 227051
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was RMC 09/20/94: RMC/CARMON COSTA/PHONE RP PLANS REMOVAL, SCHEDULE DUE 10/30/94. 10/07/94: RMC/CARMON COSTA/SITE THREE TANKS PREVIOUSLY FILLED W/CONCRETE, SOIL AROUND TANKS VERY ODORUS. NEW TANK PIT CUT NEXT TO AND SOIL TAKEN OFF SITE,RMC ASKED FOR TEST PITS AND LOCATION OF SOIL TAKEN OFF S. 10/19/94: RMC/CARMON COSTA/SITE THREE TANKS PREVIOUSLY FILLED W/CONCRETE, REMOVED AND 120 PLUS YARDS CONATAMINATED SOIL, TESTING AND DISPOSAL DUE 12/15/94. 11/07/94: RMC/CARMON COSTA/PHONE TANK PIT SAMPLE RESULTS HIGH, TO INSTALL MONITORING WELL TO LOOK AT GW, RESULTS DUE 1/1/95. 11/15/94: RMC/RECEIVED DISPOSAL RECEIPTS, OK, TO INSTALL MONITORING WELL TO LOOK AT GW, RESULTS DUE 1/1/95. 01/30/95: RMC/BAKER/PHONE WORK NOT DONE, LETTET, SIT ASSESMENT DUE 4/7/95. 03/20/95: RMC/FILE RECEIVED AND RESPONDED TO LETTER FROM BAKER, SITE ASSESMENT DUE 5/15/95. 03/29/95: RMC/BAKER/PHONE RP WANTS INACTIVE, RMC ADVISED THAT NOT POSSIBLE W/ CONTAMINATE LEVELS IN EXCAVATION W/OUT KNOWING EXTENT OF CONTAM,RP WANTS TO APPEAL,RMC GAVE PJBS NUMBER,RMC ADVISED SAC. 04/19/95: RMC/PJB/BAKER/PHONE RP WENT OVER NEED FOR ASSESSMENT W/PJB, TO MEET ON SITE 4/25/95 AT 1030. 04/25/95: RMC//BAKER/SITE WENT OVER WELL PLACEMENT AND SAMPLING REQUIREMENTS, RESULTS DUE 6/30/95. 06/01/95: RMC/ZINK,EPS/PHONE EPS INSTALLED WELL TO SAMPLE NEXT WEEK, ODORS ENCOUNTERED AT 15 FEET AND DEEPER, RESULTS DUE 7/1/95. 07/13/95: RMC/FILE RECEIVED RESULTS, SEVERAL EXCEEDANCES, RESAMPLE LETTER, RESULTS DUE 10/30/95. 08/31/95: RMC/BAKER/PHONE RP PLANS TO PUMP INTO BSA FOR SEVERAL WEEKS AND RESAMPLE, RMC ADVISED TO OBTAIN APPROVAL FROM BSA, RESULTS DUE 11/30/95. 12/26/95 RMC/FILE RECEIVED EPS APPLICATION TO DISCHARGE TO BSA, EXPECT ADDITIONAL MW RESULTS 2/28/96 01/96 RMC/EPS/SITE SYSTEM INSTALLED, OPERATION HAMPERED BY COLD WEATHER, NEXT ROUND DUE 3/30/96 03/12/96 RMC/DAVE ELLSWORTH/PHONE RNL/MEETING RESULTS AFTER PUMPING WITH IN INACTIVE STATUS, TO TAKE ANOTHER ROUND OF ANALYSIS TO CONFIRM IN MONTH, RESULTS DUE 4/30/96 04/25/96 RMC/FILE RECEIVED TWO ROUNDS WELL SAMPLING, DURING AND AFTER PUMPING, MINOR EXCEEDANCES, INACTIVE PER RNL. "
Remarks: "FOUND TWO UNREGISTERED USTS. PLAN TO REMOVE, 1K AND 4K"

All Materials:
Site ID: 279603
Operable Unit ID: 1005832
Operable Unit: 01
Material ID: 377676
Material Code: 0064A
Material Name: unknown material
Case No.: Not reported
Material FA: Other
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

**58**
**WNW**
**1/4-1/2**
**0.251 mi.**
**1324 ft.**

**MASTEN SERVICE INC**
**247 MASTEN AVE**
**BUFFALO, NY 14209**

**LTANKS**
**UST**
**NY Spills**

**U003318536**
**N/A**

**Relative:**
**Higher**

**Actual:**
**640 ft.**

LTANKS:

| | |
|---|---|
| Facility ID: | 9601741 |
| Site ID: | 205526 |
| Closed Date: | 1996-05-03 |
| Spill Number: | 9601741 |
| Spill Date: | 1996-05-03 |
| Spill Cause: | Tank Overfill |
| Spill Source: | Gasoline Station or other PBS Facility |
| Spill Class: | C3 |
| Cleanup Ceased: | Not reported |
| SWIS: | 1502 |
| Investigator: | PRINGLE |
| Referred To: | Not reported |
| Reported to Dept: | 1996-05-03 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Responsible Party |
| Last Inspection: | 1996-05-03 |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | True |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1996-05-03 |
| Spill Record Last Update: | 2002-03-19 |
| Spiller Name: | BILL ANDERSON |
| Spiller Company: | FRANCIS W KING PETROLEUM |
| Spiller Address: | 370 ESSEX AVENUE |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 170654 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MNP 05/03/96: MNP INSP. SPOKE W/ STATION OWNER. SPILL CAUSED BY AIR LOCK IN VENT. KING PETROLEUM FINISHED DELIVERY WITHOUT ANY MORE PROBLEMS. AFTER INITIAL SPILL. ONLY STAINED BLACKTOP, NO DRAINS AFFECTED. CLEANUP USING SORBENT PADS SATISFACTORY.. NO FURTHER ACTION NEEDED, COMPLETE." |
| Remarks: | "tank was being filled and petrolium gushed out at the end maybe a vent problem - stain on pavement - spill cleaned up using pads " |

All Materials:

| | |
|---|---|
| Site ID: | 205526 |
| Operable Unit ID: | 1033309 |
| Operable Unit: | 01 |
| Material ID: | 351546 |
| Material Code: | 0009 |
| Material Name: | gasoline |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | 15.00 |
| Units: | G |
| Recovered: | 10.00 |

**MASTEN SERVICE INC (Continued)** **U003318536**

Oxygenate: Not reported

UST:
Id/Status: 9-495913 / Active
Program Type: PBS
Region: STATE
DEC Region: 9
Expiration Date: 05/25/2019
UTM X: 184929.22638
UTM Y: 4757938.21414
Site Type: Auto Service/Repair (No Gasoline Sales)

Affiliation Records:
Site Id: 54693
Affiliation Type: Mail Contact
Company Name: MASTEN SERVICE, INC
Contact Type: Not reported
Contact Name: DAVID PLISZKA
Address1: 247 MASTEN AVE
Address2: Not reported
City: BUFFALO
State: NY
Zip Code: 14209
Country Code: 001
Phone: (716) 913-3012
EMail: PLISZKA2007@GMAIL.COM
Fax Number: Not reported
Modified By: SLZIEMBA
Date Last Modified: 2014-05-21

Site Id: 54693
Affiliation Type: Emergency Contact
Company Name: DAVID PLISZKA
Contact Type: Not reported
Contact Name: DAVID PLISZKA
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (716) 913-3012
EMail: Not reported
Fax Number: Not reported
Modified By: SLZIEMBA
Date Last Modified: 2014-05-21

Site Id: 54693
Affiliation Type: Facility Owner
Company Name: DAVID PLISZKA
Contact Type: OWNER
Contact Name: DAVID PLISZKA
Address1: 201 LEYDECKER RD.
Address2: Not reported
City: WEST SENECA
State: NY

**MASTEN SERVICE INC (Continued)** **U003318536**

| | |
|---|---|
| Zip Code: | 14224 |
| Country Code: | 001 |
| Phone: | (716) 913-3012 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | SLZIEMBA |
| Date Last Modified: | 2014-05-21 |

| | |
|---|---|
| Site Id: | 54693 |
| Affiliation Type: | Facility Operator |
| Company Name: | MASTEN SERVICE INC |
| Contact Type: | Not reported |
| Contact Name: | DAVID PLISZKA |
| Address1: | Not reported |
| Address2: | Not reported |
| City: | Not reported |
| State: | NN |
| Zip Code: | Not reported |
| Country Code: | 001 |
| Phone: | (716) 913-3012 |
| EMail: | Not reported |
| Fax Number: | Not reported |
| Modified By: | SLZIEMBA |
| Date Last Modified: | 2014-05-21 |

Tank Info:

| | |
|---|---|
| Tank Number: | 1 |
| Tank ID: | 168643 |
| Tank Status: | Closed - Removed |
| Material Name: | Closed - Removed |
| Capacity Gallons: | 4000 |
| Install Date: | Not reported |
| Date Tank Closed: | 04/01/1990 |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Steel/carbon steel |
| Material Code: | 0009 |
| Common Name of Substance: | Gasoline |

| | |
|---|---|
| Tightness Test Method: | NN |
| Date Test: | Not reported |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | TRANSLAT |
| Last Modified: | 04/14/2017 |

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

**MASTEN SERVICE INC (Continued)** **U003318536**

| | |
|---|---|
| Tank Number: | 2 |
| Tank ID: | 168644 |
| Tank Status: | Closed - Removed |
| Material Name: | Closed - Removed |
| Capacity Gallons: | 2000 |
| Install Date: | Not reported |
| Date Tank Closed: | 04/01/1990 |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Steel/carbon steel |
| Material Code: | 0009 |
| Common Name of Substance: | Gasoline |
| Tightness Test Method: | NN |
| Date Test: | Not reported |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | TRANSLAT |
| Last Modified: | 04/14/2017 |

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None

| | |
|---|---|
| Tank Number: | 3 |
| Tank ID: | 170668 |
| Tank Status: | Temporarily Out of Service |
| Material Name: | Temporarily Out of Service |
| Capacity Gallons: | 3000 |
| Install Date: | 04/01/1990 |
| Date Tank Closed: | Not reported |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Steel/carbon steel |
| Material Code: | 0009 |
| Common Name of Substance: | Gasoline |
| Tightness Test Method: | NN |
| Date Test: | 05/13/2004 |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | LDGOMEZ |
| Last Modified: | 04/14/2017 |

Equipment Records:

D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
E00 - Piping Secondary Containment - None
I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
B02 - Tank External Protection - Original Sacrificial Anode

**MASTEN SERVICE INC (Continued)** **U003318536**

H02 - Tank Leak Detection - Interstitial - Manual Monitoring
H04 - Tank Leak Detection - Groundwater Well
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
L04 - Piping Leak Detection - Groundwater Well
L02 - Piping Leak Detection - Interstitial - Manual Monitoring

| | |
|---|---|
| Tank Number: | 4 |
| Tank ID: | 170669 |
| Tank Status: | Temporarily Out of Service |
| Material Name: | Temporarily Out of Service |
| Capacity Gallons: | 3000 |
| Install Date: | 04/01/1990 |
| Date Tank Closed: | Not reported |
| Registered: | True |
| Tank Location: | Underground |
| Tank Type: | Steel/carbon steel |
| Material Code: | 0009 |
| Common Name of Substance: | Gasoline |
| Tightness Test Method: | NN |
| Date Test: | 05/13/2004 |
| Next Test Date: | Not reported |
| Pipe Model: | Not reported |
| Modified By: | LDGOMEZ |
| Last Modified: | 04/14/2017 |

Equipment Records:

B02 - Tank External Protection - Original Sacrificial Anode
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
H04 - Tank Leak Detection - Groundwater Well
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
E00 - Piping Secondary Containment - None
I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
L04 - Piping Leak Detection - Groundwater Well
L02 - Piping Leak Detection - Interstitial - Manual Monitoring

SPILLS:

| | |
|---|---|
| Facility ID: | 0813761 |
| Facility Type: | ER |
| Spill Number: | 0813761 |
| DER Facility ID: | 360677 |
| Site ID: | 411459 |
| DEC Region: | 9 |
| Closed Date: | 2009-03-23 |
| Spill Cause: | Deliberate |
| Spill Class: | D4 |

**MASTEN SERVICE INC (Continued)** **U003318536**

| | |
|---|---|
| SWIS: | 1502 |
| Spill Date: | 2009-03-20 |
| Investigator: | FXGALLEG |
| Referred To: | LAW ENFORCEMENT |
| Reported to Dept: | 2009-03-20 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Gasoline Station or other PBS Facility |
| Spill Notifier: | Citizen |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | False |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| UST Trust: | Not reported |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2009-03-20 |
| Spill Record Last Update: | 2009-03-23 |
| Spiller Name: | Not reported |
| Spiller Company: | MASTEN SALES & SERVICES |
| Spiller Address: | 247 MASTEN AVE. |
| Spiller Company: | 999 |
| Contact Name: | Not reported |
| DEC Memo: | "3/21/09 REFERRED SPILL REPORT TO THE DIVISION OF LAW ENFORCEMENT FOR FOLLOW UP. SPILL IS CLOSED. ELECTRONIC FILE ONLY." |
| Remarks: | "CALLER STATES THAT HE HAS SEEN EMPLOYEES DUMP ANT-FREZZE & TRANSMISSION FLUID IN A HOLE IN THE FLOOR,NEAR THE WASH BASINS." |

All Materials:

| | |
|---|---|
| Site ID: | 411459 |
| Operable Unit ID: | 1167935 |
| Operable Unit: | 01 |
| Material ID: | 2159557 |
| Material Code: | 0043A |
| Material Name: | antifreeze |
| Case No.: | Not reported |
| Material FA: | Other |
| Quantity: | Not reported |
| Units: | G |
| Recovered: | Not reported |
| Oxygenate: | Not reported |

| | |
|---|---|
| Site ID: | 411459 |
| Operable Unit ID: | 1167935 |
| Operable Unit: | 01 |
| Material ID: | 2159558 |
| Material Code: | 0021 |
| Material Name: | transmission fluid |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | Not reported |
| Units: | G |
| Recovered: | Not reported |
| Oxygenate: | Not reported |

**59**
**NNW**
**1/4-1/2**
**0.254 mi.**
**1341 ft.**

**FORMER SCHOOL/COMM CENTER**
**25 VERPLANK ST AT UTICA**
**BUFFALO, NY**

**LTANKS** **S103238644**
**N/A**

**Relative:**
**Lower**

**Actual:**
**636 ft.**

LTANKS:

| | |
|---|---|
| Facility ID: | 9709192 |
| Site ID: | 85756 |
| Closed Date: | 1998-05-08 |
| Spill Number: | 9709192 |
| Spill Date: | 1997-11-03 |
| Spill Cause: | Tank Failure |
| Spill Source: | Institutional, Educational, Gov., Other |
| Spill Class: | B3 |
| Cleanup Ceased: | Not reported |
| SWIS: | 1502 |
| Investigator: | JFOTTO |
| Referred To: | Not reported |
| Reported to Dept: | 1997-11-06 |
| CID: | 999 |
| Water Affected: | Not reported |
| Spill Notifier: | Other |
| Last Inspection: | 1997-11-26 |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1997-11-06 |
| Spill Record Last Update: | 1998-05-11 |
| Spiller Name: | LARRY SCHIAVONE |
| Spiller Company: | CITY OF BUFFALO |
| Spiller Address: | CITY HALL |
| Spiller County: | 999 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 78741 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was JFO 11/6/97 FG SITE VISIT. OLD SCHOOL BEING DEMOLISHED BY CITY OF BUFFALO. THEY DISCOVERED OIL APPROX 8 TO 12 FEET DEEP IN ONE EXCAVATION. SAMPLE WAS COLLECTED AND RUN FOR PCB'S = .045PPB & DOH 310-13 = FUEL OIL #2. MET MR. FRED ALEXANDER & FRANK BADAME, CONTRACTORS WITH THE CITY OF BUFFALO ON SITE. THEY BELIEVE THAT THE CONTAMINATED MATERIAL IS CONFINED AND THEY COULD DIG OUT. THEY WILL TALK TO THE CITY OF BUFFALO AND DECIDE WHAT THEY WILL DO AND GET BACK. I TOLD THEM I WOULD SEND THEM A LETTER WITH REQUIREMENTS. 11/20/97 LARRY SCHIAVONE WITH CITY ON SITE, BADAME & MR. ALEXANDER ALONG WITH FG. CITY DECIDED TO EXCAVATE AND DISPOSE. WORK TO BEGIN NEXT WEEK. 11/25/97 FG ON SITE WITH LARRY SCHIAVONE AND CONTRACTORS. MINOR ODOR IN SOILS, CITY TO EXCAVATE ADDITIONAL SOIL. 11/26/97 FRED ALEXANDER, & MR. BADAME ON SITE ALONG WITH FG. EXCAVATION LOOKED CLEAN, NO ODOR OR SHEEN. CONTRACTORS SAID THEY REMOVED AN OLD UST WITH HOLES. THEY WILL CLEAN OUT AND DISPOSE AS SCRAP. TWO EXCAVATION SAMPLES COLLECTED, ONE FROM SIDES AND ONE FROM BOTTOM. ANALYSIS TO BE RUN FOR 8021 AND 8270. THEY WILL SUBMIT ANALYTICAL AND DISPOSAL RECEIPTS. 1/14/98 RECEIVED EXCAVATION RESULTS. INITIAL RESULTS SHOWED 8270 ABOVE STARS. ADDITIONAL EXCAVATION OCCURRED AND RESAMPLING TOOK |

**FORMER SCHOOL/COMM CENTER (Continued)** **S103238644**

Remarks: PLACE. RESULTS WERE THEN BELOW STARS. WAITING FOR DISPOSAL RECEIPTS. 3/11/98 FG SPOKE TO JIM SMITH WITH THE CITY OF BUFFALO WHO WAS ASKING STATUS ON THIS SITE. I TOLD HIM ALL WAS COMPLETE BUT WE JUST NEED A DISPOSAL RECPT. 3/11/98 FG SPOKE TO ANDY MCLELLAN WITH ENVIRONMENTAL EDUCATION ASSOCS. HE SAID HE WILL GET ME THE DISPOSAL RECPT. 5/1/98 LETTER SENT REQUESTING DISPOSAL RECPTS. RESPONSE DUE 5/22/98 05/08/98 JFO RECEIVED DISPOSAL RECEIPTS. NO FURTHER ACTION REQUIRED CLOSED" "CITY OF BUFFALO WAS DEMOLISHING THE BUILDING AND DISCOVERED PETROLEUM 8-12 FEET DEEP WASTE STREAM ANALOGGED SAMPLES AND PETROLEUM FOUND TO BE #2 FUEL OIL"

All Materials:

| | |
|---|---|
| Site ID: | 85756 |
| Operable Unit ID: | 1055583 |
| Operable Unit: | 01 |
| Material ID: | 331108 |
| Material Code: | 0001A |
| Material Name: | #2 fuel oil |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

---

**60**
**NNE**
**1/4-1/2**
**0.280 mi.**
**1480 ft.**

**BUFFALO NIPPLE AND MACHINE** **ERP** **S113917283**
**335 GLENWOOD AVENUE** **N/A**
**BUFFALO (C), NY 14208**

**Relative: Lower**

**Actual: 634 ft.**

ERP:

| | |
|---|---|
| Site Code: | 58465 |
| Program: | ERP |
| HW Code: | B00082 |
| Site Class: | N |
| Class N: | N |
| SWIS: | 1502 |
| Region: | 9 |
| Town: | Buffalo (c) |
| Acres: | 1 |
| Record Added: | 10/29/2003 |
| Record Updated: | 02/19/2013 |
| Updated By: | MLDOSTER |
| Site Description: | City of Buffalo applied to NYS Environmental Restoration Program in October 1997 to investigate the property. The City withdrew the application in February 1999. No further information on site is available. |
| Env Problem: | Not reported |
| Health Problem: | Not reported |

**61**
**NE**
**1/4-1/2**
**0.380 mi.**
**2006 ft.**

**BUFFALO SCHOOL #53**
**3291 ROEHER AVENUE**
**BUFFALO, NY**

**LTANKS** **S100120838**
**N/A**

**Relative:**
**Lower**

**Actual:**
**636 ft.**

LTANKS:

| | |
|---|---|
| Facility ID: | 9100284 |
| Site ID: | 328680 |
| Closed Date: | 1991-09-18 |
| Spill Number: | 9100284 |
| Spill Date: | 1991-04-05 |
| Spill Cause: | Tank Test Failure |
| Spill Source: | Institutional, Educational, Gov., Other |
| Spill Class: | Not reported |
| Cleanup Ceased: | 1991-08-09 |
| SWIS: | 1502 |
| Investigator: | LYONS |
| Referred To: | Not reported |
| Reported to Dept: | 1991-04-05 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Tank Tester |
| Last Inspection: | 1991-08-07 |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | True |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1991-04-09 |
| Spill Record Last Update: | 1991-09-18 |
| Spiller Name: | Not reported |
| Spiller Company: | BUFFALO BOARD OF EDUCATIO |
| Spiller Address: | 406 CITY HALL |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 264515 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MEL 04/05/91: MEL INSP. STANDING OIL IN TANK PIT. TANK SCHEDULED FOR ISOLATION TEST. 07/24/91: MJH/MF INSP. TANK REMOVED FROM GROUND, TWO ROLL OFF CONTAINERS FILLED WITH SOIL. EXCAVATION BACK FILLED W/OUT DEC APPROVAL. JERRY HOCH REPORTS THAT ALL CONTAM. SOIL WAS EXCAVATED. 09/18/91: MEL. RECIEVED DISPOSAL RECIEPTS FOR CONTAMINATED SOIL. NO FURTHER ACTION NECESSARY, RECOMMEND FILE BE CLOSED. " |
| Remarks: | "TANK FAILURE AT SCHOOL #53" |

All TTF:

| | |
|---|---|
| Facility ID: | 9100284 |
| Spill Number: | 9100284 |
| Spill Tank Test: | 1538428 |
| Site ID: | 328680 |
| Tank Number: | Not reported |
| Tank Size: | 0 |
| Material: | 0001 |
| EPA UST: | Not reported |
| UST: | Not reported |
| Cause: | Not reported |
| Source: | Not reported |

**BUFFALO SCHOOL #53 (Continued)** **S100120838**

| | |
|---|---|
| Test Method: | 00 |
| Test Method 2: | Unknown |
| Leak Rate: | .00 |
| Gross Fail: | Not reported |
| Modified By: | Spills |
| Last Modified Date: | Not reported |

All Materials:

| | |
|---|---|
| Site ID: | 328680 |
| Operable Unit ID: | 953829 |
| Operable Unit: | 01 |
| Material ID: | 426494 |
| Material Code: | 0001A |
| Material Name: | #2 fuel oil |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | Not reported |
| Recovered: | .00 |
| Oxygenate: | Not reported |

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**62**
**ESE**
**1/4-1/2**
**0.384 mi.**
**2026 ft.**

**ST MARTINS VILLAGE LP** **LTANKS** **S102234097**
**564 DODGE ST** **NY Spills** **N/A**
**BUFFALO, NY 14208**

**Relative:**
**Higher**

**Actual:**
**659 ft.**

LTANKS:

| | |
|---|---|
| Facility ID: | 9509662 |
| Site ID: | 280332 |
| Closed Date: | 1995-12-20 |
| Spill Number: | 9509662 |
| Spill Date: | 1995-09-26 |
| Spill Cause: | Tank Failure |
| Spill Source: | Institutional, Educational, Gov., Other |
| Spill Class: | C3 |
| Cleanup Ceased: | 1995-12-20 |
| SWIS: | 1502 |
| Investigator: | COOKE |
| Referred To: | Not reported |
| Reported to Dept: | 1995-10-17 |
| CID: | 349 |
| Water Affected: | Not reported |
| Spill Notifier: | Tank Tester |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1995-11-03 |
| Spill Record Last Update: | 2007-01-17 |
| Spiller Name: | Not reported |
| Spiller Company: | DIOCESE OF BUFFALO |
| Spiller Address: | 795 MAIN STREET |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |

**ST MARTINS VILLAGE LP (Continued)** **S102234097**

| | |
|---|---|
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 227613 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was JDC 10/11/95: POST ANALYSIS INDICATED HIGH LEVELS OF 8270 ELEMENTS. REQUESTED RESAMPLE UNDER 8270 TCLP. 11/6/95: SENT LETTER TO RP REQUESTING RESAMPLE OF EXCAVATION AREA. 11/10/95: JDC TELCON W/ JOE KLOC TO MET ON SITE. 11/13/95: INSPECTED SITE W/ KLOC AND REQUESTED CORE SAMPLE FROM THE EXCAVATION TO TANK BOTTOM DEPTH OF 12 FEET. 12/20/95: JDC RECIEVED AND REVIEWD RESAMPLING OF EXCAVATION AND FOUND SATISFACTORY. BASED ON RESULTS NO FURTHER ACTION IS REQUIRED. SENT CLOSURE LETTER TO RP. " |
| Remarks: | "ANALYTICAL RESULTS FROM TANK.EXCAVATION EXCEED GUIDENCE VALVES" |

All Materials:

| | |
|---|---|
| Site ID: | 280332 |
| Operable Unit ID: | 1020137 |
| Operable Unit: | 01 |
| Material ID: | 360600 |
| Material Code: | 0001A |
| Material Name: | #2 fuel oil |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

SPILLS:

| | |
|---|---|
| Facility ID: | 1113684 |
| Facility Type: | ER |
| Spill Number: | 1113684 |
| DER Facility ID: | 416139 |
| Site ID: | 461692 |
| DEC Region: | 9 |
| Closed Date: | 2012-03-08 |
| Spill Cause: | Other |
| Spill Class: | D4 |
| SWIS: | 1502 |
| Spill Date: | 2012-03-07 |
| Investigator: | FXGALLEG |
| Referred To: | Not reported |
| Reported to Dept: | 2012-03-07 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Source: | Institutional, Educational, Gov., Other |
| Spill Notifier: | Other |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | False |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| UST Trust: | Not reported |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2012-03-07 |
| Spill Record Last Update: | 2012-03-08 |

**ST MARTINS VILLAGE LP (Continued)** **S102234097**

Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller Company: Not reported
Contact Name: Not reported
DEC Memo: "3/7/12 AL LYONS PROVIDED THE FOLLOWING UPDATE: As a follow-up to our telephone conversation this afternoon, attached please find the environmental reports for the above referenced site. As I indicated during our telephone conversation, this site was transformed into a housing complex in 2011. As part of the construction process, the entire area of where the elevated levels were observed was excavated down to below 15 . During the excavation process, Great Lakes was on site to oversee and monitor excavated soils to insure no environmental conditions existed. None were observed. However, in the process of the owner refinancing of the site, a phase I environmental assessment (section from EDA report attached) was conducted which indicated a concern because a drum of solvent was removed from the building. Therefore, a Phase II was recommended. FYI, Great Lakes actually managed the disposal of the drum during the construction project. At the time of discovery, the drum was in tack within the building with no evidence of a spill or release. A copy of the analytical data report to characterize it for disposal is attached. As recommended in the Phase I report, Great Lakes conducted the initial Phase II in January 2012 (report attached). However, because Great Lakes was not an approved vendor for the bank, Passero Associates of Rochester, New York performed a subsequent Phase II (Report Attached). As we discussed, this sampling indicated an elevated level of acetone in the groundwater. Thinking that it was a laboratory contaminant, a subsequent sampling was conducted for the one elevated well (analytical report attached). This sampling also indicated an elevated level of acetone (342 ppb) as well as detections of benzene (5.17ppb), toluene (3.5 ppb), xylene (5.5 ppb), and 2-butanone (81.5 ppb). In summary, all soil sampling results at the site as well as visual observations during construction activities did not indicate any environmental conditions. Therefore, it is my belief that this is not a site issue. In addition, due to the very low level of constituents detected in the groundwater, it does not pose an environmental issue for the site. Therefore, could you please review the attached information and as we discussed and issue a letter of no further action for the site, if appropriate. As discussed, the results of this finding are holding up a substantial amount of money in a refinance of the property and your prompt response would be greatly appreciated. Thank you in advance for your assistance in this matter Albert G. Lyons, Jr., P.E. Vice President/COO Great Lakes Environmental & Safety Consultants, Inc. 50 Ridge Road Buffalo, NY 14218 Office: 716.827.0700 ext. 15 Cell: 716-949-9451 Fax: 716.824.4734 3/8/12 MINOR CONTAMINATION IDENTIFIED AT MW1 AS NOTED ABOVE. PROBABLY ASSOCIATED WITH FORMER FUEL OIL UST REMOVAL FROM THE SAME AREA SPILL 9509662. NO FURTHER WORK IS REQUIRED. THE SPILL IS INACTIVE."
Remarks: "PHASE II COMPLETED AND CONTAMINATION DISCOVERED IN GROUNDWATER. LOW LEVEL CONTAMINATION - BENZENE 5 PPB XYLENE 5PPB, LOW LEVEL ACETONE. PROPERTY TRANSACTION PENDING RESOLUTION OF THE ENVIRONMENTAL ISSUES. REPORT WILL BE SUBMITTED ASAP - PHASE I AND II."

All Materials:
Site ID: 461692
Operable Unit ID: 1211776

**ST MARTINS VILLAGE LP (Continued)** **S102234097**

| | |
|---|---|
| Operable Unit: | 01 |
| Material ID: | 2209595 |
| Material Code: | 0066A |
| Material Name: | unknown petroleum |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

---

**63**
**SW**
**1/4-1/2**
**0.388 mi.**
**2050 ft.**

**MASTEN AVENUE ARMORY** **LTANKS S103053506**
**27 MASTEN AVENUE** **NY Spills N/A**
**BUFFALO, NY**

**Relative:**
**Higher**

**Actual:**
**675 ft.**

LTANKS:

| | |
|---|---|
| Facility ID: | 9709636 |
| Site ID: | 106039 |
| Closed Date: | 1998-03-30 |
| Spill Number: | 9709636 |
| Spill Date: | 1997-11-19 |
| Spill Cause: | Tank Failure |
| Spill Source: | Commercial/Industrial |
| Spill Class: | B3 |
| Cleanup Ceased: | Not reported |
| SWIS: | 1502 |
| Investigator: | RMCROSSE |
| Referred To: | Not reported |
| Reported to Dept: | 1997-11-19 |
| CID: | 999 |
| Water Affected: | Not reported |
| Spill Notifier: | Other |
| Last Inspection: | 1997-11-20 |
| Recommended Penalty: | False |
| Meets Standard: | False |
| UST Involvement: | True |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1997-11-19 |
| Spill Record Last Update: | 1998-05-11 |
| Spiller Name: | HEIDI GABEL |
| Spiller Company: | NYS DIV MILITARY NAVAL AF |
| Spiller Address: | 330 OLD NISKAYUNA ROAD |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 93469 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was RMC 11/19/97 AND 11/20/97: RMC/SITE, MET WITH MARSHALL KIMMONS, CONTAMINATION NOTED IN TANK PIT UPON REMOVAL, KIMMONS REMOVED APPROXIMATELY 200 TONS SOIL AND TOOK POST EXCAVATION SAMPLES, LETTER TO RP, SAMPLE RESULTS AND DISPOSAL RECEIPTS DUE 1/30/98 12/02/97: RMC/FILE, TANK WAS MIS-REPORTED AS A 5OOO GALLON TANK, ACTUAL TANK IS A 3000 GALLON FUEL OIL TANK 12/04/97: RMC/FILE, RECEIVED EXCAVATION |

**MASTEN AVENUE ARMORY (Continued)** **S103053506**

SAMPLE REPORT, MINOR EXCEEDANCES, DISPOSAL DUE 1/30/98 01/15/98: RMC/HEIDI GABEL/PHONE, GABEL HAS BEEN UNABLE TO CONTACT KIMMONS, FAXED CONTRACTORS LIST, RESPONSE DUE 2/28/98 03/30/98: RMC/FILE, RECEIVED DISPOSAL DOCUMENTS, OK, SITE TO BE MADE INACTIVE PER RNL, LETTER, INACTIVE"

Remarks: "REMOVED 5000 GALLON TANK AND FOUND CONTAMINATION"

All Materials:

| | |
|---|---|
| Site ID: | 106039 |
| Operable Unit ID: | 1052680 |
| Operable Unit: | 01 |
| Material ID: | 327972 |
| Material Code: | 0008 |
| Material Name: | diesel |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

| | |
|---|---|
| Facility ID: | 8904853 |
| Site ID: | 219352 |
| Closed Date: | 1990-11-14 |
| Spill Number: | 8904853 |
| Spill Date: | 1989-08-15 |
| Spill Cause: | Tank Test Failure |
| Spill Source: | Institutional, Educational, Gov., Other |
| Spill Class: | Not reported |
| Cleanup Ceased: | 1990-11-14 |
| SWIS: | 1502 |
| Investigator: | LYONS |
| Referred To: | Not reported |
| Reported to Dept: | 1989-08-15 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Tank Tester |
| Last Inspection: | 1990-11-14 |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | True |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1989-08-16 |
| Spill Record Last Update: | 1990-12-18 |
| Spiller Name: | Not reported |
| Spiller Company: | MASTEN AVENUE ARMORY |
| Spiller Address: | 27 MASTEN AVENUE |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 181393 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MEL 08/16/89: LQR TELCON W/ SPILLER RETEST BEING PREFORMED. 09/25/89: LQR TELCON W/ SPILLER TANK TO BE REMOVED LETTER TO SPILLER SENT. 11/17/89: LQR TELCON W/ SPILLER BIDS OUT TO REMOVE 2 TANKS. 01/30/90: |

**MASTEN AVENUE ARMORY (Continued)** **S103053506**

LQR TELCON W/ SPILLER REMOVE 2 TANKS AFTER 04/01/90. 11/14/90: MEL INSP. TANKS REMOVED FROM GROUND, NO CONTAMINATION OBSERVED. NO FURTHER ACTION NECESSARY, RECOMMEND FILE BE CLOSED. 09/29/95: This is additional information about material spilled from the translation of the old spill file: UNKNOWN AMOUNT."

Remarks: "4000 GAL LEAK RATE -O.37047 GPH"

All TTF:

| | |
|---|---|
| Facility ID: | 8904853 |
| Spill Number: | 8904853 |
| Spill Tank Test: | 1535858 |
| Site ID: | 219352 |
| Tank Number: | Not reported |
| Tank Size: | 0 |
| Material: | 0009 |
| EPA UST: | Not reported |
| UST: | Not reported |
| Cause: | Not reported |
| Source: | Not reported |
| Test Method: | 00 |
| Test Method 2: | Unknown |
| Leak Rate: | .00 |
| Gross Fail: | Not reported |
| Modified By: | Spills |
| Last Modified Date: | Not reported |

All Materials:

| | |
|---|---|
| Site ID: | 219352 |
| Operable Unit ID: | 932603 |
| Operable Unit: | 01 |
| Material ID: | 448884 |
| Material Code: | 0009 |
| Material Name: | gasoline |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

| | |
|---|---|
| Facility ID: | 9305872 |
| Site ID: | 219353 |
| Closed Date: | 1993-08-27 |
| Spill Number: | 9305872 |
| Spill Date: | 1993-08-11 |
| Spill Cause: | Tank Overfill |
| Spill Source: | Institutional, Educational, Gov., Other |
| Spill Class: | C3 |
| Cleanup Ceased: | 1993-08-27 |
| SWIS: | 1502 |
| Investigator: | RMCROSSE |
| Referred To: | Not reported |
| Reported to Dept: | 1993-08-12 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | DEC |

**MASTEN AVENUE ARMORY (Continued)** **S103053506**

| | |
|---|---|
| Last Inspection: | 1993-08-27 |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1993-08-13 |
| Spill Record Last Update: | 1993-08-31 |
| Spiller Name: | Not reported |
| Spiller Company: | MASTEN AVENUE ARMORY |
| Spiller Address: | 27 MASTEN AVENUE |
| Spiller County: | 001 |
| Spiller Contact: | Not reported |
| Spiller Phone: | Not reported |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 181393 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was RMC 08/20/93: RMC/LESLIE FISHER SUPT OF MAINTENANCE/PHONE RP TO REMOVE CONTAMINATED SOIL, RMC TO INSPECT NEXT WEEK. 08/27/93: RMC/LESLIE FISHER SUPT OF MAINTENANCE/SITE CONTAMINATION REMOVED TO NORMAL DUMPSTER PICKUP, NO FURTHER ACTION REQUIRED, CLOSE OUT. " |
| Remarks: | "TANK #7 WAS OVERFILLED, NOTED DURING PBS INSPECTION." |

All TTF:

| | |
|---|---|
| Facility ID: | 9305872 |
| Spill Number: | 9305872 |
| Spill Tank Test: | 1541872 |
| Site ID: | 219353 |
| Tank Number: | 007 |
| Tank Size: | 0 |
| Material: | 0022 |
| EPA UST: | Not reported |
| UST: | Not reported |
| Cause: | 02 |
| Source: | Not reported |
| Test Method: | 00 |
| Test Method 2: | Unknown |
| Leak Rate: | .00 |
| Gross Fail: | Not reported |
| Modified By: | Spills |
| Last Modified Date: | Not reported |

All Materials:

| | |
|---|---|
| Site ID: | 219353 |
| Operable Unit ID: | 987352 |
| Operable Unit: | 01 |
| Material ID: | 395775 |
| Material Code: | 0022 |
| Material Name: | waste oil/used oil |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | Not reported |
| Recovered: | .00 |
| Oxygenate: | Not reported |

**MASTEN AVENUE ARMORY (Continued)** **S103053506**

SPILLS:

| | |
|---|---|
| Facility ID: | 9907527 |
| Facility Type: | ER |
| Spill Number: | 9907527 |
| DER Facility ID: | 181393 |
| Site ID: | 219354 |
| DEC Region: | 9 |
| Closed Date: | 1999-09-24 |
| Spill Cause: | Equipment Failure |
| Spill Class: | D3 |
| SWIS: | 1502 |
| Spill Date: | 1999-09-22 |
| Investigator: | RMCROSSE |
| Referred To: | Not reported |
| Reported to Dept: | 1999-09-22 |
| CID: | 211 |
| Water Affected: | Not reported |
| Spill Source: | Commercial Vehicle |
| Spill Notifier: | Responsible Party |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | True |
| Last Inspection: | 1999-09-23 |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1999-09-22 |
| Spill Record Last Update: | 1999-09-30 |
| Spiller Name: | ANTHONY IMAGNA |
| Spiller Company: | NYS NATIONAL GUARD |
| Spiller Address: | 27 MASTEN AVENUE ARMORY |
| Spiller Company: | 001 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was RMC 09/23/99: RMC SITE INSPECTION, MET SGT IMAGNA AND HEIDE GABEL, 518-786-4347, SPILLAGE FROM VEHICLE, WHICH MUST HAVE MINOR HISTORICAL LEAKING PROBLEM, TO INSIDE OF STORAGE SHED ON GRAVEL WHERE PARKED, NOTED TRIANGULAR AREA 6 BY 10 BY 8 FEET IMPACTED WITH STAINED GRAVEL, RMC ADVISED TO BAG UP MINOR AMOUNT OF GRAVEL IMPACTED AND DISPOSE OF IN NORMAL WASTESTREAM, PROVIDED 6MILL GARBAGE BAGS, ALSO TO CHECK MACHINE FOR LEAKS AND REPAIR IF NECESSARY, CLOSE OUT " |
| Remarks: | "historical spill - waste products from vehicles - soil affected no clean up" |

All Materials:

| | |
|---|---|
| Site ID: | 219354 |
| Operable Unit ID: | 1081806 |
| Operable Unit: | 01 |
| Material ID: | 300229 |
| Material Code: | 0022 |
| Material Name: | waste oil/used oil |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

**MASTEN AVENUE ARMORY (Continued)** **S103053506**

| | |
|---|---|
| Site ID: | 219354 |
| Operable Unit ID: | 1081806 |
| Operable Unit: | 01 |
| Material ID: | 300230 |
| Material Code: | 0043A |
| Material Name: | antifreeze |
| Case No.: | Not reported |
| Material FA: | Other |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

| | |
|---|---|
| Facility ID: | 9708830 |
| Facility Type: | ER |
| Spill Number: | 9708830 |
| DER Facility ID: | 215366 |
| Site ID: | 264237 |
| DEC Region: | 9 |
| Closed Date: | 1997-10-31 |
| Spill Cause: | Equipment Failure |
| Spill Class: | D4 |
| SWIS: | 1502 |
| Spill Date: | 1997-10-28 |
| Investigator: | RMCROSSE |
| Referred To: | Not reported |
| Reported to Dept: | 1997-10-28 |
| CID: | 267 |
| Water Affected: | Not reported |
| Spill Source: | Commercial Vehicle |
| Spill Notifier: | Affected Persons |
| Cleanup Ceased: | Not reported |
| Cleanup Meets Std: | True |
| Last Inspection: | Not reported |
| Recommended Penalty: | False |
| UST Trust: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 1997-10-28 |
| Spill Record Last Update: | 1997-11-12 |
| Spiller Name: | JAMES FREEHART |
| Spiller Company: | NYS NATIONAL GUARD |
| Spiller Address: | 27 MASTEN AVENUE |
| Spiller Company: | 001 |
| Contact Name: | Not reported |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was RMC 10/28/97 RMC/FILE LEFT MESSAGE FOR RP TO CALL 10/31/97 RMC/FILE KAH TOOK CALL FROM JAMES FREEHART, NATIONAL GUARD, WHO STATED THAT MINOR SPILL HAPPENED TOTALLY WITHIN BUILDING SOMETIME IN 1995, THEY JUST REALIZED THAT REPORTING WAS REQUIRED, SPILL WAS CLEANED UP WITH SPEEDY DRY, RMC VIEWED THIS AS A MINOR SPILL TO BEGIN WITH AND BEING CLEANED UP YEARS AGO, NO ACTION REQUIRED, CLOSE OUT " |
| Remarks: | "FUEL LAEKING FROM AN M1 TANK INSIDE THE BUILDING ONTO THE BLACKTOP FLOOR CALLER WAS JUST ADVISED OF THIS AND WILL BE FOLLOWING UP TOMORROW AM UNKNOWN IF THIS IS A SPILL OR CAUSED BY THE HEAT OF THE TANK CALLER WILL UPDATE DEC TOMORROW" |

**MASTEN AVENUE ARMORY (Continued)** **S103053506**

All Materials:

| | |
|---|---|
| Site ID: | 264237 |
| Operable Unit ID: | 1055265 |
| Operable Unit: | 01 |
| Material ID: | 330773 |
| Material Code: | 0008 |
| Material Name: | diesel |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

---

**64**
**WNW**
**1/4-1/2**
**0.484 mi.**
**2553 ft.**

**ABANDONED AUTO REPAIR** **LTANKS** **S105995030**
**63 E. UTICA** **N/A**
**BUFFALO, NY**

**Relative:**
**Lower**

**Actual:**
**638 ft.**

LTANKS:

| | |
|---|---|
| Facility ID: | 0175489 |
| Site ID: | 308975 |
| Closed Date: | 2002-10-03 |
| Spill Number: | 0175489 |
| Spill Date: | 2002-01-01 |
| Spill Cause: | Tank Failure |
| Spill Source: | Commercial/Industrial |
| Spill Class: | D3 |
| Cleanup Ceased: | Not reported |
| SWIS: | 1502 |
| Investigator: | JFOTTO |
| Referred To: | Not reported |
| Reported to Dept: | 2002-01-29 |
| CID: | Not reported |
| Water Affected: | Not reported |
| Spill Notifier: | Local Agency |
| Last Inspection: | 2002-10-02 |
| Recommended Penalty: | False |
| Meets Standard: | True |
| UST Involvement: | False |
| Remediation Phase: | 0 |
| Date Entered In Computer: | 2002-01-29 |
| Spill Record Last Update: | 2002-10-03 |
| Spiller Name: | LARRY OWENS |
| Spiller Company: | LARRY OWENS |
| Spiller Address: | 47 E. UTICA |
| Spiller County: | 001 |
| Spiller Contact: | LARRY OWENS |
| Spiller Phone: | (716) 885-2547 |
| Spiller Extention: | Not reported |
| DEC Region: | 9 |
| DER Facility ID: | 249523 |
| DEC Memo: | "Prior to Sept, 2004 data translation this spill Lead_DEC Field was JFO 01/29/02 JFO ON SITE MET WITH MR LARRY OWENS. THERE ARE 2-275 GALLON ABOVE GROUND HEATING OIL TANKS IN HIS YARD. OVER THE YEARS A |

**ABANDONED AUTO REPAIR (Continued)** **S105995030**

SLIGHT LEAK HAS ACCUMULATED AND STAINED THE CONCRETE. ONE TANK IS EMPTY, THE OTHER HAS A FEW GALLONS IN IT. I EXPLAINED TO MR OWENS THAT HE SHOULD EMPTY THE TANK TO PREVENT ANY MORE SPILLAGE. A SERVICE GARAGE THAT CHANGES OIL WILL ACCEPT 5 GALLONS A DAY. MR OWENS WILL CLEAN UP AROUND THE TANKS AND DISPOSE IN REGULAR WASTE STREAM. I WILL CHECK SITE IN 2 WEEKS. 02/14/02 JFO ON SITE MET WITH LARRY OWENS. HE HAS NOT BEEN ABLE TO CLEANUP THE AREA AROUND THE TANKS BECAUSE OF THE WEATHER (FROZEN GROUND) HE WILL CLEANUP AS SOON AS THE GROUND THAWS. I WILL CHECK BACK AGAIN WHEN I AM IN THE AREA. 10/02/02 JFO ON SITE, THE AREA HAS BEEN CLEANED UP. THERE APPEARS TO BE NO OIL IN THE TANKS. NO FURTHER ACTION REQUIRED. CLOSED"

Remarks: "WHILE DOING BUILDING INSPECTION, CITY OF BUFFALO INSPECTOR CAME ACROSS TWO OLD ABOVE-GROUND STORAGE TANKS (APPROX. 100 GAL.). ONE TANK APPEARED TO BE EMPTY AND THE OTHER APPEARED TO HAVE A SMALL QUANTITY OF LIQUID IN THE BOTTOM. MR. BANYI INDICATED THAT THERE WAS A PETROLEUM ODOR PRESENT. TO ACCESS PROPERTY AT 63 E. UTICA, TAKE DRIVEWAY FOR 47 E. UTICA (WHICH IS REPORTEDLY MR. OWENS, PROPERTY OWNER OF RECORD'S RESIDENCE) STRAIGHT BACK TO ABANDONED AUTO REPAIR AND TIRE SHOP. OUTSIDE OF THAT SHOP IS WHERE THE TANKS ARE LOCATED. "

All Materials:

| | |
|---|---|
| Site ID: | 308975 |
| Operable Unit ID: | 853262 |
| Operable Unit: | 01 |
| Material ID: | 524820 |
| Material Code: | 0066A |
| Material Name: | unknown petroleum |
| Case No.: | Not reported |
| Material FA: | Petroleum |
| Quantity: | .00 |
| Units: | G |
| Recovered: | .00 |
| Oxygenate: | Not reported |

---

**65**
**WSW**
**1/2-1**
**0.608 mi.**
**3209 ft.**

**Relative: Lower**

**Actual: 638 ft.**

**OSMOSE WOOD PRESERVING** **SHWS** **S118950588**
**980 ELLICOTT STREET** **N/A**
**BUFFALO, NY 14209**

SHWS:

| | |
|---|---|
| Program: | HW |
| Site Code: | 56635 |
| Classification: | Site is properly closed - requires continued management. |
| Region: | 9 |
| Acres: | 0.5 |
| HW Code: | 915143 |
| Record Add: | 11/18/1999 |
| Record Upd: | 10/31/2016 |
| Updated By: | CRSTANIS |

Site Description: Location: The Osmose Wood Preserving site is located in a mixed commercial and residential area at 980 Ellicott Street in the City of Buffalo, Erie County. Site Features: The Site itself is an active facility composed of multiple structures and asphalt parking areas. Current Zoning and Land Use: This site is zoned for industrial-manufacturing. Past Use of the Site: Underground storage tanks in the fenced parking lot of Osmose, Inc. were used to store

**OSMOSE WOOD PRESERVING (Continued)** **S118950588**

creosote, #2 fuel oil, and other chemicals, which were found leaking in 1989. The tanks were removed from the site. Some soil surrounding the tanks also contained elevated levels of PAHs and were excavated and placed into a lined bio-cell in 1990 to undergo bio-remediation. The bio-remediation was not successful and was suspended in 1996. A site investigation by Osmose in 1993, confirmed the presence of severe environmental problems on-site due to PAHs in soil and groundwater outside the bio-cell area. Pilot studies to determine the effectiveness of in-situ Ozonation Technology was completed in 1994. A non-aqueous phase liquid (NAPL) extraction system was installed to recover the floating oily material in the groundwater in 1995 and has been in operation since then. At present no significant amount of NAPL is being recovered. The Feasibility Study was completed in 1995. The excavation of off-site contaminated soils was completed in 1995. The Record of Decision (ROD) was issued in 1997. Under the selected remedy, the non-aqueous phase liquid is pumped out followed by ozone treatment of contaminated subsurface soils. Construction of an ozone sparge/soil vapor extraction system was completed in 1999. The ozone treatment started in 2002 and was shutdown in 2005 as the soil cleanup levels were met. Groundwater extraction and treatment is on-going to address groundwater contamination. Currently, groundwater and street sanitary sewers are being monitored under the Operation and Monitoring Plan.

Env Problem: Nature and Extent of Contamination: Prior to Remediation: Contaminants of concern at this site included creosote, #2 fuel oil, Poly-aromatic Hydrocarbons, and other chemicals. These contaminants had been stored in underground storage tanks which had leaked, subsequently contaminating groundwater and soil. Post-Remediation: The remediation of soils is complete and groundwater remediation is still ongoing. Remedial action is preventing off-site migration. Groundwater and street sewers are being monitored under the OM&M Plan.

Health Problem: Exposures via drinking water are not expected because homes in the area are served by public water and no known private wells exist in the immediate area. Direct contact exposure to site-related contaminants by community members is not expected because the remaining contaminants are located below a paved parking lot and public access to the site is restricted by security guards. A deed restriction is in place to control future digging on the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: unknown
Disp Term: 1990
Lat/Long: 42:54:16:0 / 78:52:00:0
Dell: False
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 11/18/1999 12:00:00 PM
Updated By: INITIAL
Own Op: On-Site Operator
Sub Type: E
Owner Name: C/O David V. L. Bradley, Esq.
Owner Company: Osmose Realty Corporation
Owner Address: 980 ELLICOTT ST.
Owner Addr2: Not reported

**OSMOSE WOOD PRESERVING (Continued)** **S118950588**

| | |
|---|---|
| Owner City,St,Zip: | BUFFALO, NY 14209 |
| Owner Country: | United States of America |
| Own Op: | Owner |
| Sub Type: | E |
| Owner Name: | Jon M. Williams |
| Owner Company: | 780 Ellicott Street, LLC |
| Owner Address: | 333 Ganson Street |
| Owner Addr2: | Not reported |
| Owner City,St,Zip: | Buffalo, NY 14203 |
| Owner Country: | United States of America |
| HW Code: | 915143 |
| Waste Type: | CREOSOTE (U051) |
| Waste Quantity: | > 1000 GALLONS |
| Waste Code: | Not reported |
| Crossref ID: | NYD002112944 |
| Cross Ref Type Code: | 05 |
| Cross Ref Type: | EPA Site ID |
| Record Added Date: | 11/18/1999 12:00:00 PM |
| Record Updated: | 5/10/2001 4:31:00 PM |
| Updated By: | REGTRANS |
| Crossref ID: | B9-0314-90-01 |
| Cross Ref Type Code: | 23 |
| Cross Ref Type: | Agreement/Consent Order Number |
| Record Added Date: | 1/30/2009 10:30:00 AM |
| Record Updated: | 1/30/2009 10:30:00 AM |
| Updated By: | DMMOLOUG |

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**66**
**NW**
**1/2-1**
**0.724 mi.**
**3825 ft.**

**1542 MAIN STREET**
**1542 MAIN STREET**
**BUFFALO, NY 14209**

**SHWS** **S113916812**
**N/A**

**Relative:**
**Lower**

**Actual:**
**634 ft.**

SHWS:

| | |
|---|---|
| Program: | HW |
| Site Code: | 482356 |
| Classification: | P |
| Region: | 9 |
| Acres: | 0.27 |
| HW Code: | 915278 |
| Record Add: | 05/24/2013 |
| Record Upd: | 07/02/2013 |
| Updated By: | BXANDERS |
| Site Description: | Location: The Site is an approximate 0.27-acre parcel located at the corner of Main St. and West Ferry St. in the City of Buffalo. Site Features: There are two adjoined buildings on the Site, which are 2- and 3- story brick, wood and concrete structures that were historically mixed use commercial and residential. The building was re-developed into a commercial building in 2012. Current Zoning and Land Use: The surrounding properties are predominately commercial to the north, east, and south with private residences to the west. Past Use of the Site: A portion of the building, historically addressed as 958-960 West Ferry Street, was used as a dry-cleaner in the past. As part of a property transaction a series of Environmenal Assessments were conducted on the property from 2007 - 2012. These reports document groundwater contamination that resulted in remedial action. Included in the remedial action: - in-situ enhanced bioremediation of VOC impacted groundwater; - implementation of a soil/fill management |

**1542 MAIN STREET (Continued)** **S113916812**

plan to address potentially impacted soil that may be encountered during Site redevelopment; and, - design and installation of an active subslab depressurization (ASD) system to protect the building from potential vapor intrusion of VOCs. Site Geology and Hydrogeology: The geology at the Site is generally described as fill materials overlying sandy lean clay and sandy silt. The fill materials consist of miscellaneous sand, intermixed with brick, concrete and cinders. Groundwater was encountered at approximately 6 fbgs during exterior installations and approximately 2 feet below grade surface during installation of the basement borings (i.e.,approximately 7 feet below street grade). Groundwater elevations surveyed in 2009 indicate groundwater flows in a general northeast direction across the Site.

Env Problem: Nature and Extent of Contamination: Chlorinated Volatile Organic Compounds (cVOCs) were detected at very low concentrations in soil samples, with the majority of analytes detected at estimated concentrations below laboratory detection limits. No cVOCs were detected above Part 375 Unrestricted Use SCOs. In groundwater the highest concentrations of cVOCs were noted in MW-12 with a concentration of 7,845 ug/L total cVOCs. Additionally; On-Site groundwater has been impacted by cVOCs, specifically perchloroethylene (PCE) and its chemical breakdown products. PCE is a common dry-cleaning solvent and the groundwater impacts are reasonably attributable to past use of a portion of the Site as a dry-cleaning facility. The groundwater impacts are located west of the buildings (MW-12 area), north of the buildings (MW-16 area) and beneath the buildings (MW-13 area). The highest concentration of cVOCs in groundwater was detected in MW-12 (7,845 ug/L total VOCs), which is located on the southern Site boundary west of the buildings. Groundwater samples from MW-13 through MW-16 are most representative of the area where the new building was recently completed. The potential for migration of cVOCs has not yet been evaluated.

Health Problem: As information for this site becomes available, it will be reviewed by the NYSDOH to determine if site contamination presents public health exposure concerns.

Dump: Not reported
Structure: Not reported
Lagoon: Not reported
Landfill: Not reported
Pond: Not reported
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: Not reported
Record Upd: Not reported
Updated By: Not reported
Own Op: Owner
Sub Type: 06
Owner Name: Scott W. Gehl
Owner Company: HOUSING OPPORTUNITIES MADE EQUAL INC.
Owner Address: 1542 Main Street (at Ferry)
Owner Addr2: Not reported
Owner City,St,Zip: Buffalo, NY 14209
Owner Country: United States of America
HW Code: Not reported
Waste Type: Not reported

**1542 MAIN STREET (Continued)** **S113916812**

| | |
|---|---|
| Waste Quantity: | Not reported |
| Waste Code: | Not reported |
| Crossref ID: | Not reported |
| Cross Ref Type Code: | Not reported |
| Cross Ref Type: | Not reported |
| Record Added Date: | Not reported |
| Record Updated: | Not reported |
| Updated By: | Not reported |

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**67**
**NE**
**1/2-1**
**0.924 mi.**
**4877 ft.**

**BUFLOVAK CO.** **FUSRAP** **1016603391**
**1543 FILLMORE AVE.** **N/A**
**BUFFALO, NY**

**Relative:**
**Lower**

**Actual:**
**635 ft.**

FUSRAP:

| | |
|---|---|
| Site Name: | BUFLOVAK CO. |
| Site Id: | NY.56 |
| Site Status: | Eliminated from further consideration under FUSRAP |
| Designated Name: | Not Designated |
| Alternate Name: | None |
| Location Street Address: | 1543 FILLMORE AVE. |
| Location City: | BUFFALO |
| Location State: | NY |
| Location County: | Not reported |
| Evaluation Year: | 1991 |
| Site Oprerations: | Research and testing with uranium raffinate. |
| Site Disposition: | Eliminated - Possibility for contamination considered remote due to scope of tests conducted and indication of cleanup operations after tests |
| Radioactice Materials Handled: | Yes |
| Primary Radioactivce Materials Handled: | Uranium Raffinate |
| Radiological Survey(S): | None Indicated |
| Long Term Care Requirements: | Not reported |
| Historical Operations: | Not reported |
| Website URL: | http://www.lm.doe.gov/Considered_Sites/Buflovak_Co_-_NY_56.aspx |

Count: 2 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| BUFFALO | S120702933 | ALAWDE FOOD MARKET | 471 EAST FERRY | | LTANKS |
| BUFFALO | S113916944 | ALLIED CHEMICAL-HOPKINS ST. SITE | NORTH OF SOUTH PARK AND HOPKIN | | SHWS |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/05/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/17/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Quarterly

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/17/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Quarterly

***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/22/2017
Date Data Arrived at EDR: 06/13/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 94

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/08/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/10/2017
Date Data Arrived at EDR: 08/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/10/2017
Date Data Arrived at EDR: 08/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/18/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 22

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

***State- and tribal - equivalent CERCLIS***

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Annually

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/08/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/25/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 31
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/13/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 10/31/2017
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 11/02/2017
Number of Days to Update: 2
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***State and tribal registered storage tank lists***

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/09/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/25/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/13/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 134

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

TANKS: Storage Tank Faciliy Listing
This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 12/22/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 34
Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 12/26/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

***State and tribal institutional control / engineering control registries***

RES DECL: Restrictive Declarations Listing
A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21
Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Varies

ENV RES DECL: Environmental Restrictive Declarations
The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 06/27/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1
Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 12/18/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls
Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68
Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls
Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68
Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Quarterly

***State and tribal voluntary cleanup sites***

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/20/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Varies

VCP NYC: Voluntary Cleanup Program Listing NYC
New York City voluntary cleanup program sites.

Date of Government Version: 10/04/2017
Date Data Arrived at EDR: 10/06/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 38

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 12/15/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements
New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Semi-Annually

***State and tribal Brownfields sites***

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 68

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Quarterly

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 08/21/2017
Date Data Arrived at EDR: 09/20/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 12/12/2017
Date Data Arrived at EDR: 12/14/2017
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 48
Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 12/11/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: No Update Planned

SWRCY: Registered Recycling Facility List
A listing of recycling facilities.

Date of Government Version: 12/08/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29
Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/30/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/22/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/28/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Annually

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Quarterly

***Local Lists of Registered Storage Tanks***

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

***Local Land Records***

LIENS: Spill Liens Information

Lien information from the Oil Spill Fund.

Date of Government Version: 11/06/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 6

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 22

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 10/31/2017
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 11/02/2017
Number of Days to Update: 2

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/22/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/11/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/17/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/17/2017
Date Data Arrived at EDR: 11/01/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/31/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/09/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/10/2018
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/09/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/05/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/08/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/26/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2017
Date Data Arrived at EDR: 10/05/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/04/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 11/10/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 63

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/04/2018
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/20/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/09/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/22/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/10/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/22/2017
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 10/29/2017
Date Data Arrived at EDR: 11/28/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 45

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/28/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/01/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/01/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 24

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/19/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/23/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 9

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/27/2017
Date Data Arrived at EDR: 11/21/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 73

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/20/2017
Date Data Arrived at EDR: 11/20/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 53

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Quarterly

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 11/06/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 01/22/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/12/2017
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 11/22/2017
Date Data Arrived at EDR: 12/14/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 46

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 12/08/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING
The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 10/31/2017
Date Data Arrived at EDR: 12/20/2017
Date Made Active in Reports: 01/29/2018
Number of Days to Update: 40

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 12/18/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Semi-Annually

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 12/01/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/02/2018
Next Scheduled EDR Contact: 04/16/2018
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 04/12/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 184

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 12/08/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2017
Date Data Arrived at EDR: 11/01/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/31/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Quarterly

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 10/25/2017
Date Data Arrived at EDR: 10/27/2017
Date Made Active in Reports: 11/28/2017
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 01/22/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: No Update Planned

VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 127

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 11/17/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 12/03/2017
Date Data Arrived at EDR: 12/06/2017
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 56

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 12/06/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**COUNTY RECORDS**

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 11/20/2017
Date Made Active in Reports: 11/29/2017
Number of Days to Update: 9

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 11/20/2017
Date Made Active in Reports: 11/29/2017
Number of Days to Update: 9

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

Registered Tank Database in Nassau County
A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Department of Health
Telephone: 516-227-9691
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 12/04/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 12/04/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 10/19/2017
Date Data Arrived at EDR: 11/21/2017
Date Made Active in Reports: 11/29/2017
Number of Days to Update: 8

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Semi-Annually

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 10/19/2017
Date Data Arrived at EDR: 11/21/2017
Date Made Active in Reports: 11/29/2017
Number of Days to Update: 8

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Semi-Annually

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/11/2017
Date Data Arrived at EDR: 11/14/2017
Date Made Active in Reports: 12/18/2017
Number of Days to Update: 34

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 107

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/05/2018
Next Scheduled EDR Contact: 04/23/2018
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/16/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/16/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 08/29/2017
Date Data Arrived at EDR: 09/08/2017
Date Made Active in Reports: 11/10/2017
Number of Days to Update: 63

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/12/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/11/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

**STREET AND ADDRESS INFORMATION**

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# APPENDIX B

## ENVIRONMENTAL/GOVERNMENT AGENCY INFORMATION

## Nick A. Suraci

**From:** New York DEC Support <newyorkdec@mycusthelp.net>
**Sent:** Monday, February 05, 2018 9:16 AM
**To:** Nick A. Suraci
**Subject:** Freedom of Information Law Request :: W031204-011018

--- Please respond above this line ---

Region 9 - Buffalo
P: 716 851-7220 | F:
www.dec.ny.gov

RE: PUBLIC RECORDS REQUEST of 1/10/2018, Reference # W031204-011018

Dear Mr. Nick Suraci,

I write in response to your Freedom of Information Law (FOIL) request seeking:
We are performing a Phase I Environmental Site Assessment and would like any and all files from the various Departments for the following property: 1200-1220 Jefferson Avenue, and 328 Northhampton Buffalo, NY SBL nos: 100.57-2-33, 100.57-2-34, 100.57-2-36, 100.57-2-37, 100.57-2-35, 100.57-2-38.

A diligent search of the files maintained by DEC produced no responsive records.

If I can be of further assistance, please contact me at 716 851-7220 and reference FOIL W031204-011018.

Sincerely,
Region 9 FOIL Coordinator

**Nick A. Suraci**

**From:** New York DEC Support <newyorkdec@mycusthelp.net>
**Sent:** Friday, February 02, 2018 4:09 PM
**To:** Nick A. Suraci
**Subject:** Freedom of Information Law Request :: W031204-011018

--- Please respond above this line ---

Region 9 - Buffalo
P: 716 851-7220 | F:
www.dec.ny.gov

RE: PUBLIC RECORDS REQUEST of 1/10/2018, Reference # W031204-011018

Dear. Nick,

There is currently no NYSDEC-regulated freshwater wetland within or adjacent to the 1200-1220 Jefferson Avenue and 328 Northhampton Buffalo, NY parcel. Therefore, the Region 9 Bureau of Wildlife has no freshwater wetland files or records for the property. We recommend contacting the U.S. Army Corps of Engineers at 716-879-4330 regarding the potential for federally-regulated wetlands.

# APPENDIX C

## HISTORIC AERIAL PHOTOGRAPHS

1200 Jefferson Avenue

1200 Jefferson Avenue

Buffalo, NY 14208

Inquiry Number: 4990067.9

July 11, 2017

# The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

07/11/17

**Site Name:**

1200 Jefferson Avenue
1200 Jefferson Avenue
Buffalo, NY 14208
EDR Inquiry # 4990067.9

**Client Name:**

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218
Contact: Chester Hochreiter

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| Year | Scale | Details | Source |
|---|---|---|---|
| 2011 | 1"=500' | Flight Year: 2011 | USDA/NAIP |
| 2009 | 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2008 | 1"=500' | Flight Year: 2008 | USDA/NAIP |
| 2006 | 1"=500' | Flight Year: 2006 | USDA/NAIP |
| 1995 | 1"=500' | Acquisition Date: March 28, 1995 | USGS/DOQQ |
| 1985 | 1"=500' | Flight Date: April 27, 1985 | USGS |
| 1983 | 1"=500' | Flight Date: March 17, 1983 | USDA |
| 1978 | 1"=500' | Flight Date: October 31, 1978 | USDA |
| 1970 | 1"=500' | Flight Date: June 23, 1970 | USGS |
| 1966 | 1"=500' | Flight Date: June 12, 1966 | USDA |
| 1962 | 1"=500' | Flight Date: November 26, 1962 | USGS |
| 1959 | 1"=500' | Flight Date: May 08, 1959 | USDA |
| 1951 | 1"=500' | Flight Date: October 14, 1951 | USDA |
| 1938 | 1"=500' | Flight Date: August 03, 1938 | USDA |

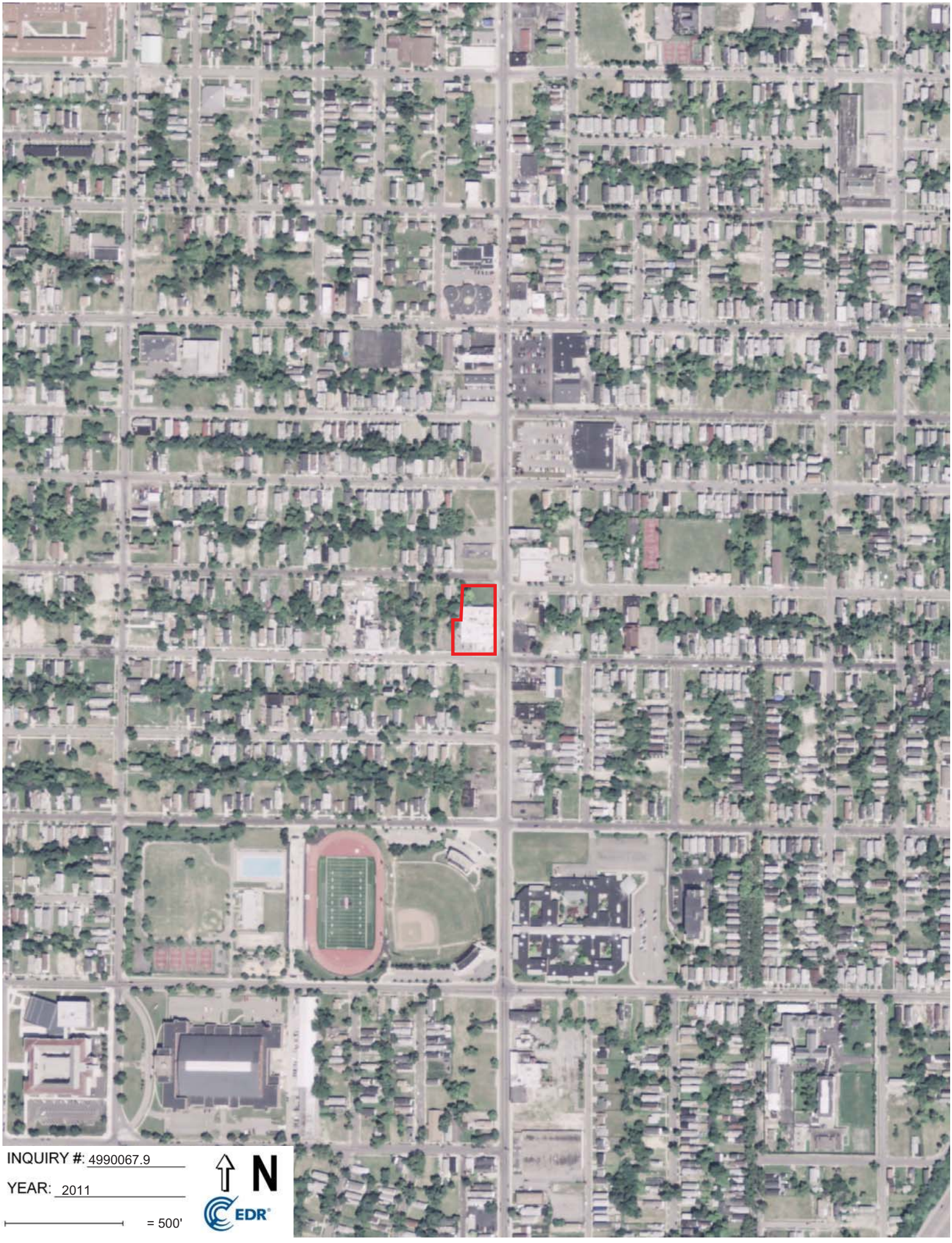
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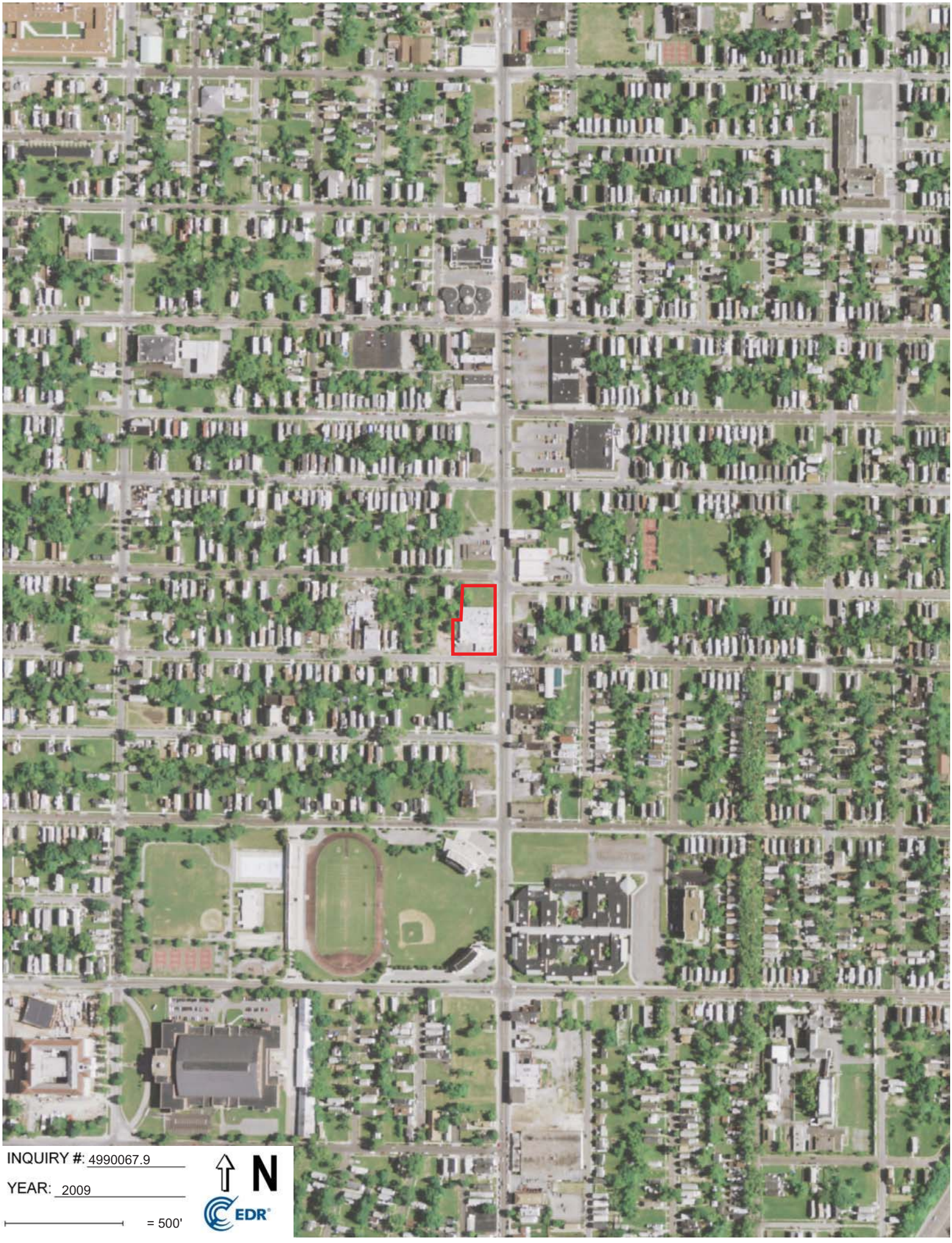

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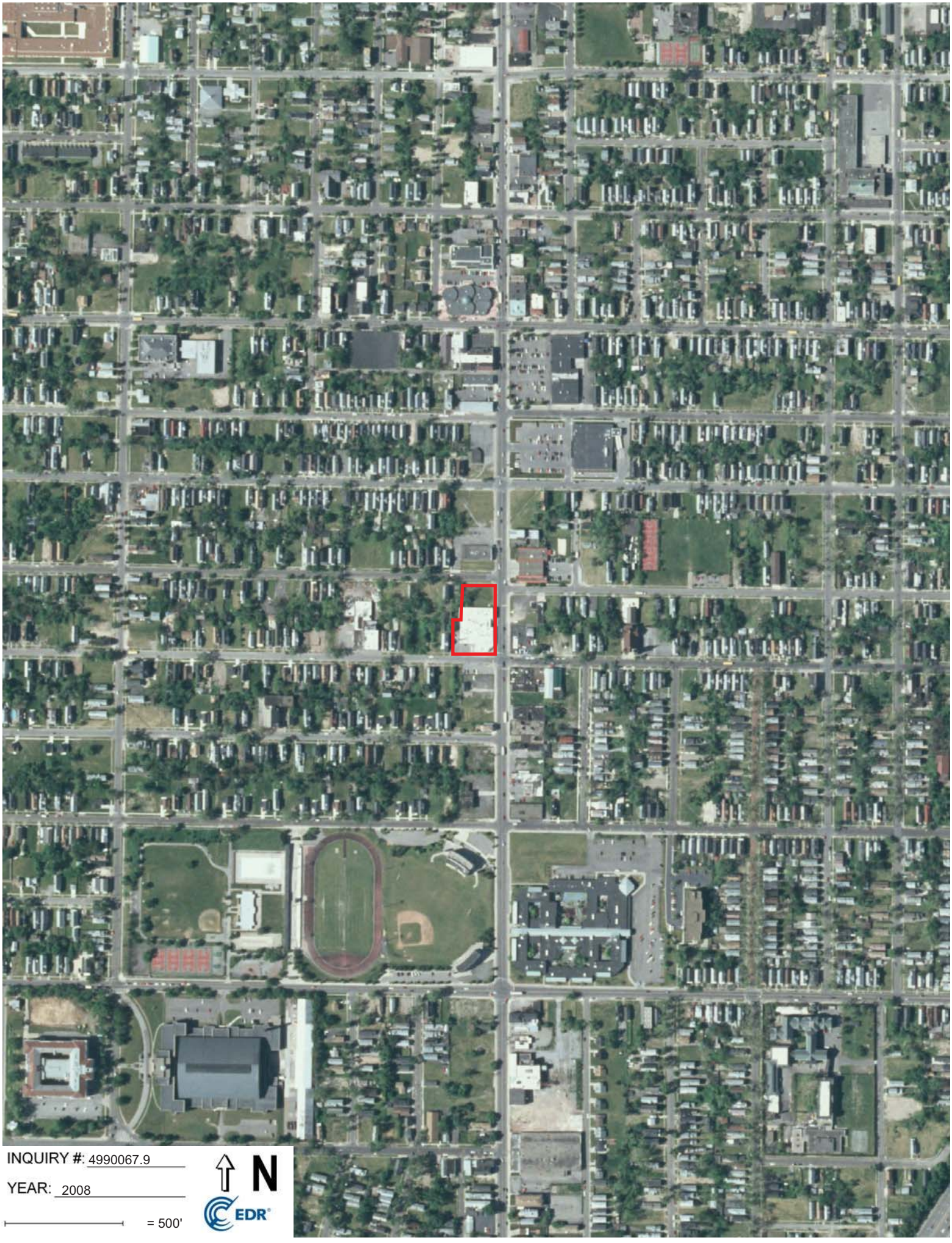
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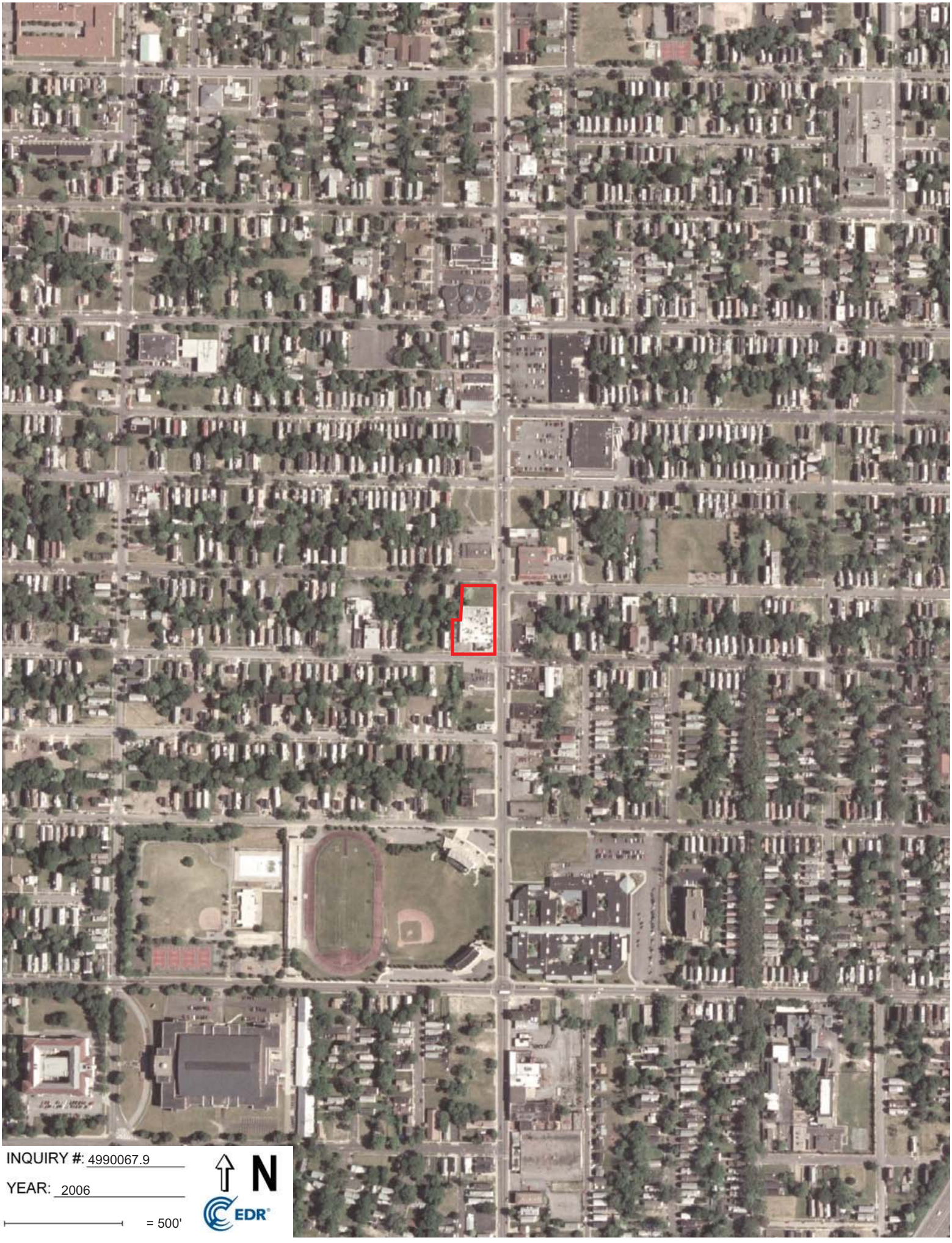
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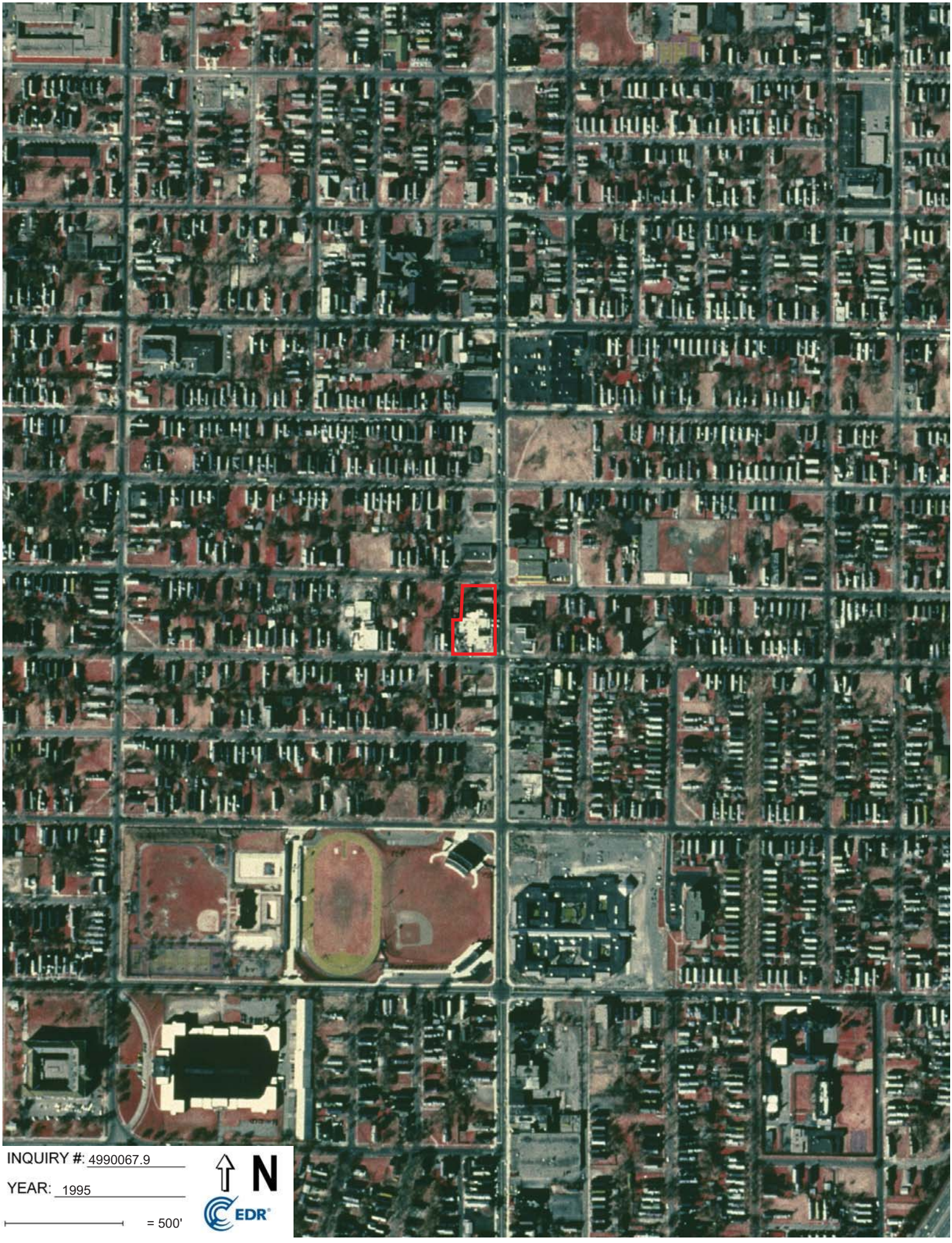
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INQUIRY #: 4990067.9
YEAR: 2011
= 500'
N
EDR


INQUIRY #: 4990067.9
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4990067.9
YEAR: 2008
= 500'
N
EDR


INQUIRY #: 4990067.9
YEAR: 2006
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EDR


INQUIRY #: 4990067.9
YEAR: 1995
= 500'
N
EDR



INQUIRY #: 4990067.9

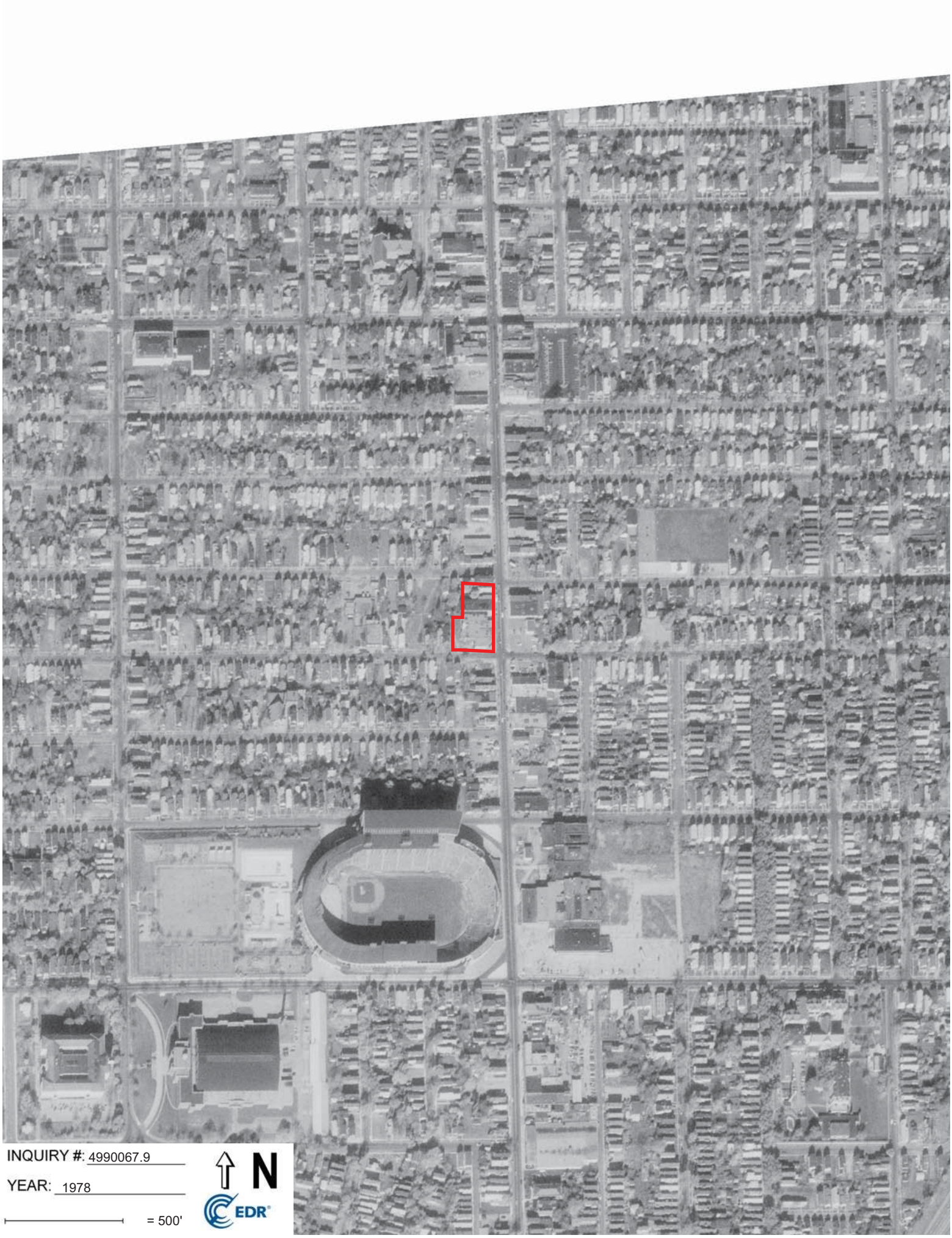
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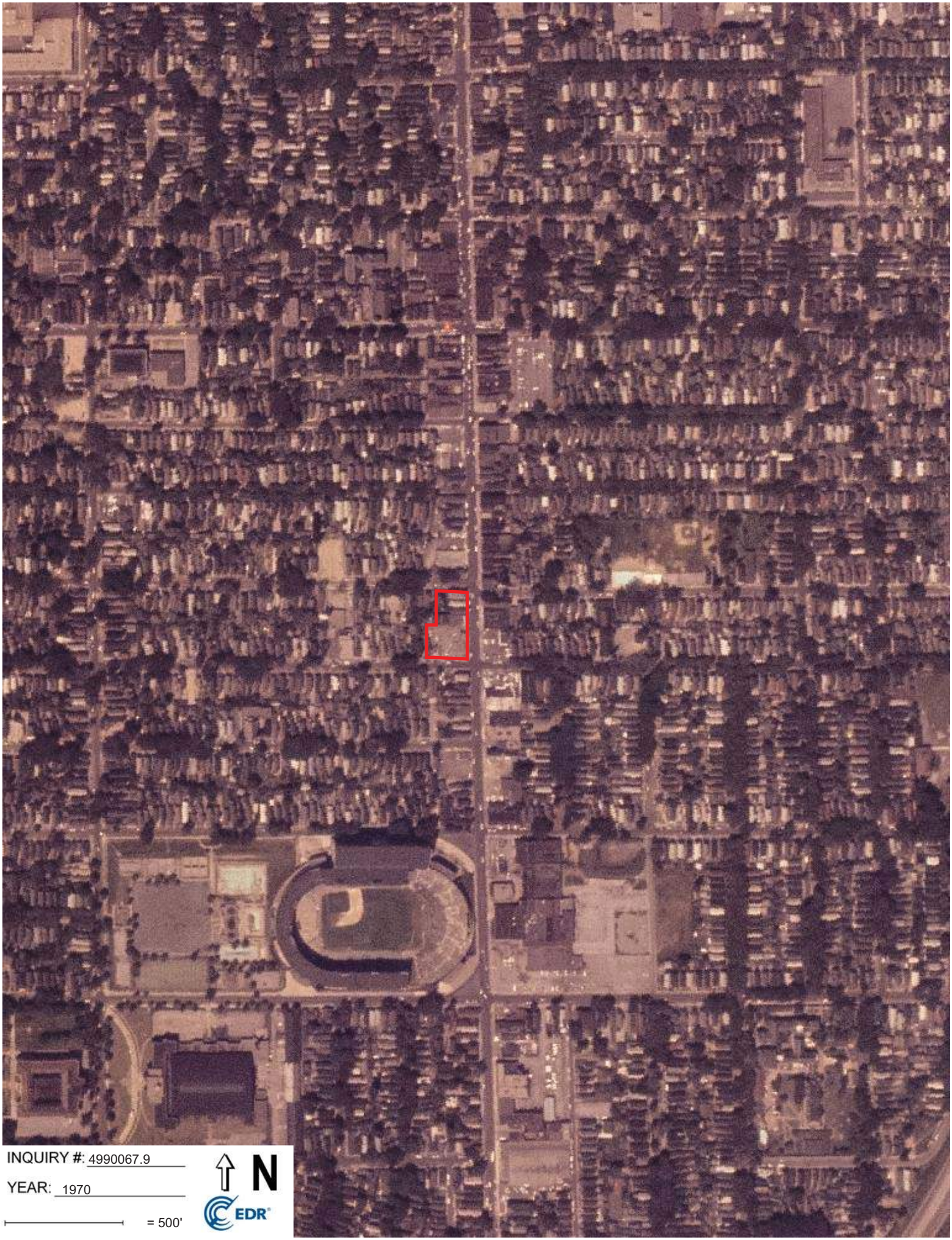
= 500'

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EDR


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YEAR: 1983
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EDR


INQUIRY #: 4990067.9
YEAR: 1978
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EDR


INQUIRY #: 4990067.9
YEAR: 1970
= 500'
N
EDR



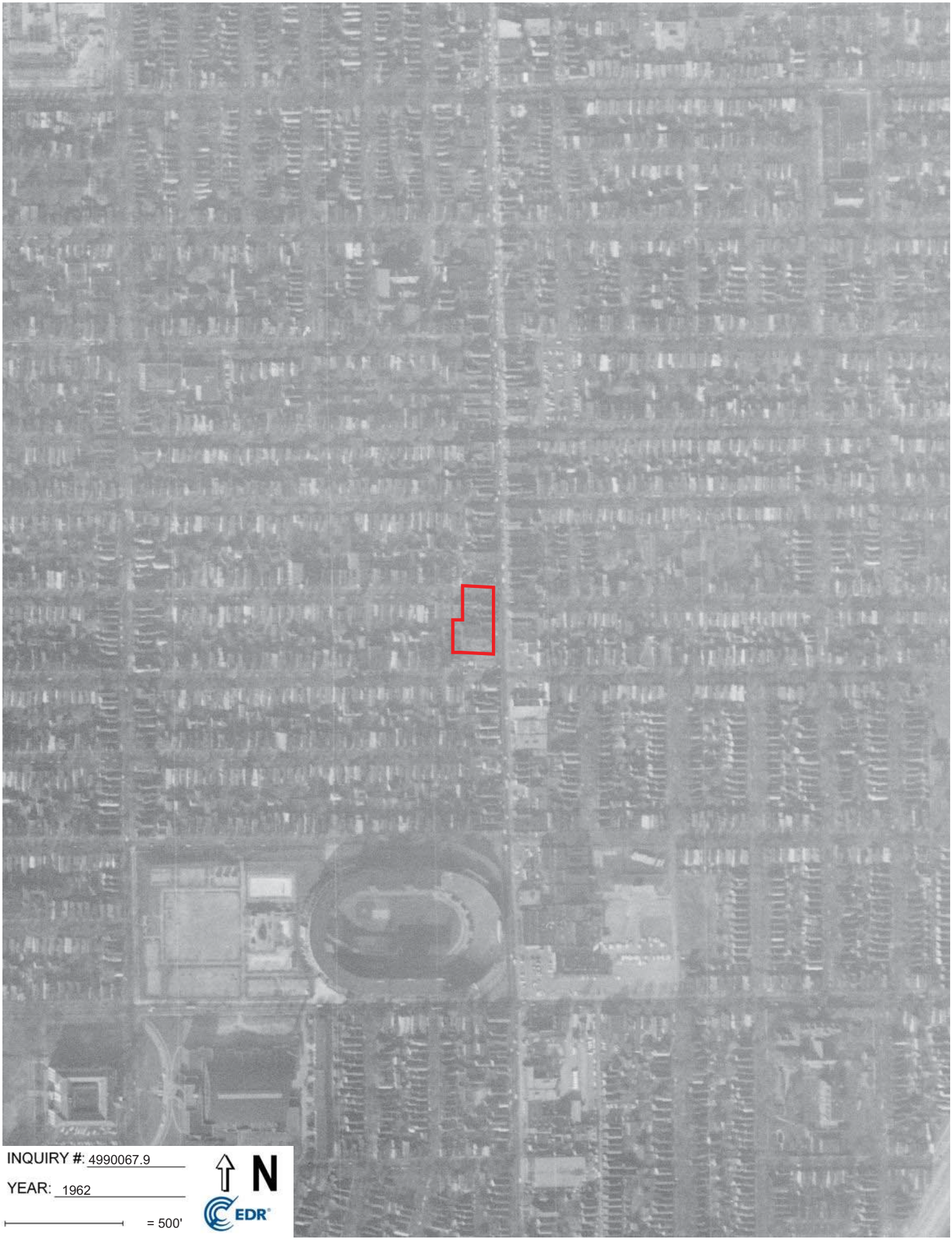
INQUIRY #: 4990067.9

YEAR: 1966

= 500'

N

EDR



INQUIRY #: 4990067.9

YEAR: 1962

= 500'

N

EDR


INQUIRY #: 4990067.9
YEAR: 1959
= 500'
N
EDR



INQUIRY #: 4990067.9

YEAR: 1951

= 500'

N

EDR



INQUIRY #: 4990067.9

YEAR: 1938

= 500'

N

EDR

# APPENDIX D

## HISTORIC SANBORN MAPS

1200 Jefferson Avenue

1200 Jefferson Avenue

Buffalo, NY 14208

Inquiry Number: 4990067.3

July 11, 2017

# Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

07/11/17

**Site Name:**

1200 Jefferson Avenue
1200 Jefferson Avenue
Buffalo, NY 14208
EDR Inquiry # 4990067.3

**Client Name:**

TurnKey Environmental Restoration, LLC.
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218
Contact: Chester Hochreiter

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by TurnKey Environmental Restoration, LLC. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## *Certified Sanborn Results:*

**Certification #** 3F55-44B7-AB22

**PO #** NA

**Project** 1200 Jefferson Avenue

Maps Provided:

1986
1950
1926
1899
1893

Sanborn® Library search results

Certification #: 3F55-44B7-AB22

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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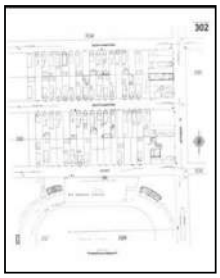
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## *Sanborn Sheet Key*

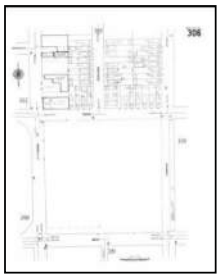
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

### 1986 Source Sheets


Volume 3, Sheet 302

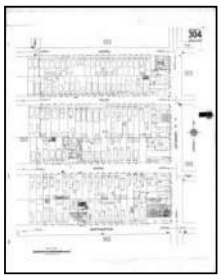

Volume 3, Sheet 304

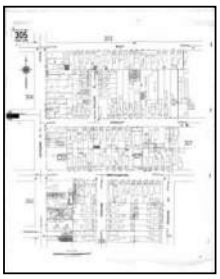

Volume 3, Sheet 305


Volume 3, Sheet 306

### 1950 Source Sheets


Volume 3, Sheet 302


Volume 3, Sheet 304


Volume 3, Sheet 305

### 1926 Source Sheets


Volume 3, Sheet 302


Volume 3, Sheet 304


Volume 3, Sheet 305

### 1899 Source Sheets


Volume 3, Sheet 284


Volume 3, Sheet 285

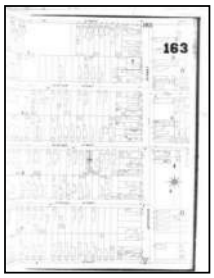

Volume 3, Sheet 292


Volume 3, Sheet 293

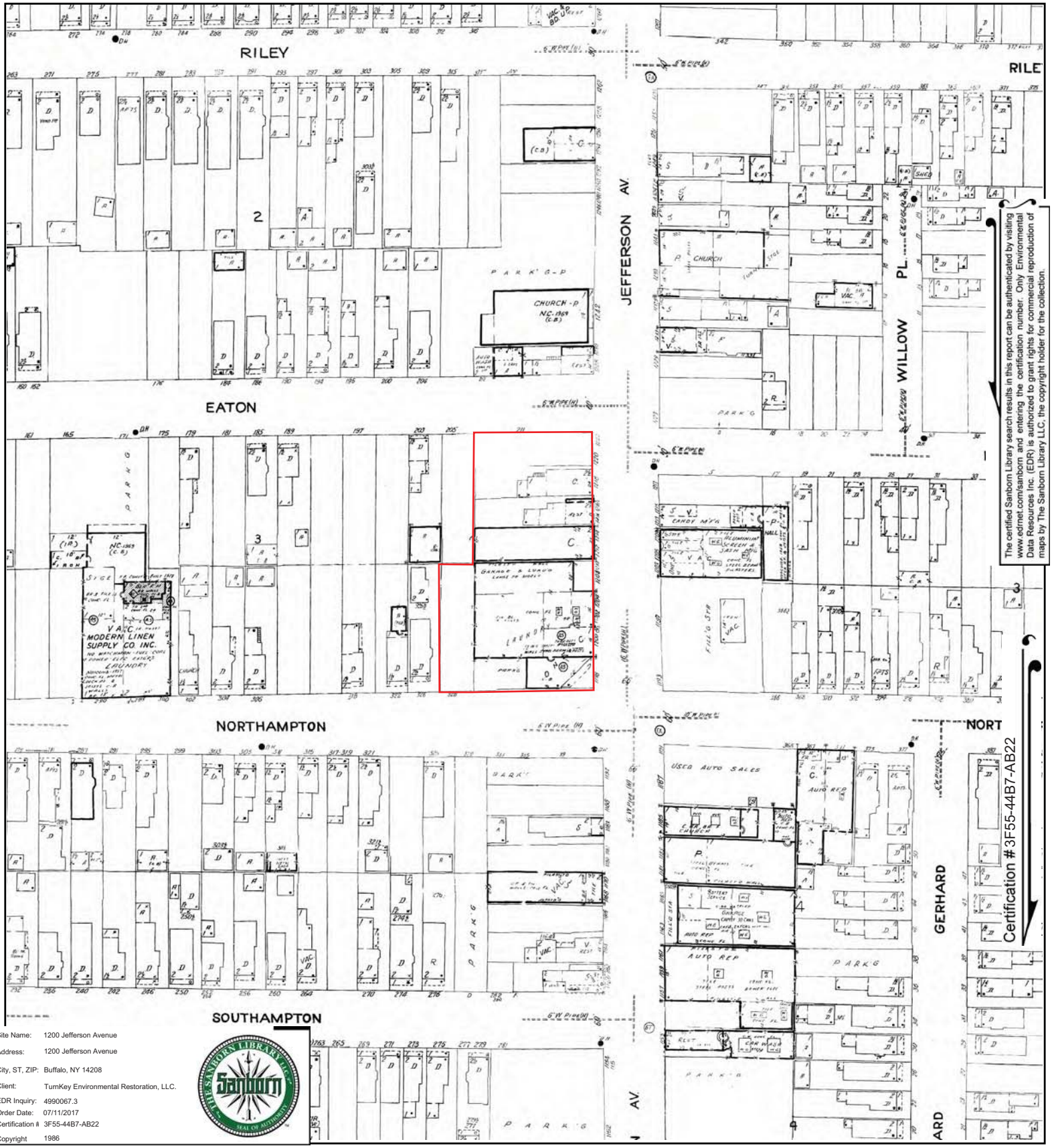
## *Sanborn Sheet Key*

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

### 1893 Source Sheets




Volume 4, Sheet 163



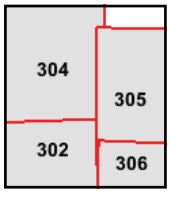

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Certification #3F55-44B7-AB22

| | |
|---|---|
| Site Name: | 1200 Jefferson Avenue |
| Address: | 1200 Jefferson Avenue |
| City, ST, ZIP: | Buffalo, NY 14208 |
| Client: | TurnKey Environmental Restoration, LLC. |
| EDR Inquiry: | 4990067.3 |
| Order Date: | 07/11/2017 |
| Certification # | 3F55-44B7-AB22 |
| Copyright | 1986 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.






Volume 3, Sheet 306
Volume 3, Sheet 305
Volume 3, Sheet 304
Volume 3, Sheet 302

0 Feet 150 300 600

N



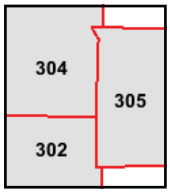

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| | |
|---|---|
| Site Name: | 1200 Jefferson Avenue |
| Address: | 1200 Jefferson Avenue |
| City, ST, ZIP: | Buffalo, NY 14208 |
| Client: | TurnKey Environmental Restoration, LLC. |
| EDR Inquiry: | 4990067.3 |
| Order Date: | 07/11/2017 |
| Certification #: | 3F55-44B7-AB22 |
| Copyright | 1950 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600






Volume 3, Sheet 305
Volume 3, Sheet 304
Volume 3, Sheet 302

N

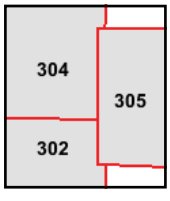



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| | |
|---|---|
| Site Name: | 1200 Jefferson Avenue |
| Address: | 1200 Jefferson Avenue |
| City, ST, ZIP: | Buffalo, NY 14208 |
| Client: | TurnKey Environmental Restoration, LLC. |
| EDR Inquiry: | 4990067.3 |
| Order Date: | 07/11/2017 |
| Certification #: | 3F55-44B7-AB22 |
| Copyright | 1926 |

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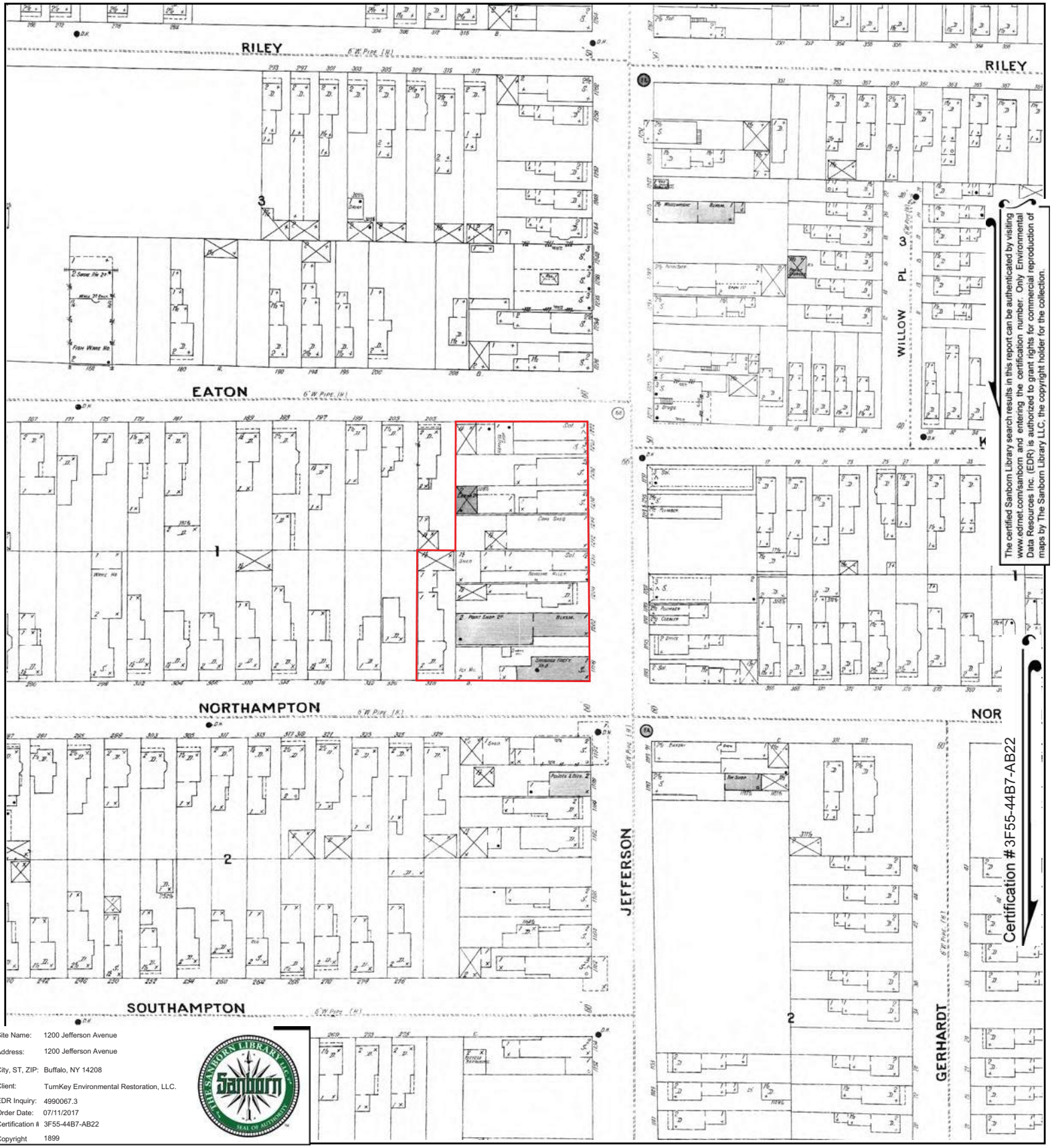





Volume 3, Sheet 305
Volume 3, Sheet 304
Volume 3, Sheet 302

0 Feet 150 300 600

N



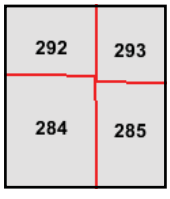

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Certification #3F55-44B7-AB22

| | |
|---|---|
| Site Name: | 1200 Jefferson Avenue |
| Address: | 1200 Jefferson Avenue |
| City, ST, ZIP: | Buffalo, NY 14208 |
| Client: | TurnKey Environmental Restoration, LLC. |
| EDR Inquiry: | 4990067.3 |
| Order Date: | 07/11/2017 |
| Certification # | 3F55-44B7-AB22 |
| Copyright | 1899 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

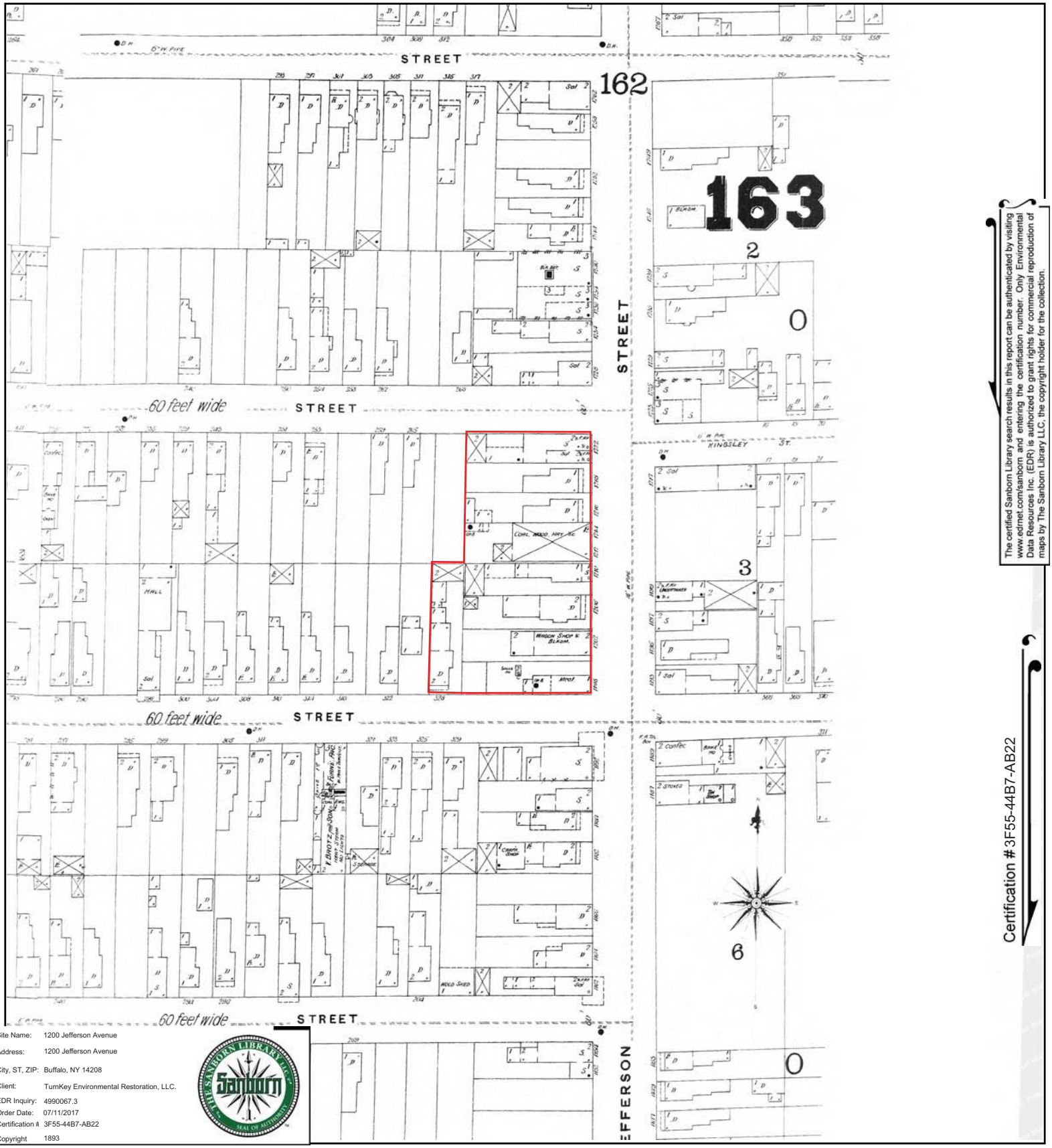





Volume 3, Sheet 293
Volume 3, Sheet 292
Volume 3, Sheet 285
Volume 3, Sheet 284

0 Feet 150 300 600

N



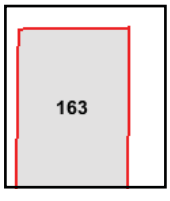

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Certification #3F55-44B7-AB22

| | |
|---|---|
| Site Name: | 1200 Jefferson Avenue |
| Address: | 1200 Jefferson Avenue |
| City, ST, ZIP: | Buffalo, NY 14208 |
| Client: | TurnKey Environmental Restoration, LLC. |
| EDR Inquiry: | 4990067.3 |
| Order Date: | 07/11/2017 |
| Certification # | 3F55-44B7-AB22 |
| Copyright | 1893 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.




Volume 4, Sheet 163

0 Feet 150 300 600

N

# APPENDIX E

## HISTORIC CITY DIRECTORIES

**1200 Jefferson Avenue**
1200 Jefferson Avenue
Buffalo, NY 14208

Inquiry Number: 4990067.5
July 13, 2017

# The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

# TABLE OF CONTENTS

## SECTION

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

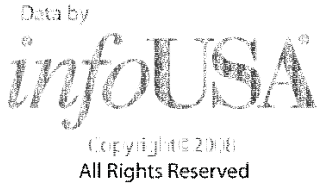
Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1925 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

## RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 2014 | EDR Digital Archive | - | X | X | - |
| 2010 | EDR Digital Archive | - | X | X | - |
| 2008 | Polk City Directories | - | X | X | X |
| 2001 | EQUIFAX Polk City Directory | - | X | X | X |
| 1998 | The Polk Company,City Directory Division | - | X | X | X |
| 1996 | R.L. Polk Company | - | - | - | - |
| 1992 | R. L. Polk Co., Publishers | - | X | X | X |
| 1985 | R. L. Polk Co., Publishers | - | X | X | X |
| | R. L. Polk Co., Publishers | X | X | X | X |
| 1980 | R. L. Polk Co., Publishers | - | X | X | X |
| | R. L. Polk Co., Publishers | X | X | X | X |

# EXECUTIVE SUMMARY

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 1975 | R. L. Polk Co. | - | X | X | X |
| | R. L. Polk Co. | X | X | X | X |
| 1970 | R.L. Polk Company, Inc., Publishers | - | X | X | X |
| | R.L. Polk Company, Inc., Publishers | X | X | X | X |
| 1964 | R. L. Polk Co., Inc., Publishers | - | X | X | X |
| | R. L. Polk Co., Inc., Publishers | X | X | X | X |
| 1960 | Polk-Clement Directory Co. Inc., | X | X | X | X |
| 1955 | Polk-Clement Directory Co. Inc., | - | X | X | X |
| | Polk-Clement Directory Co. Inc., | X | X | X | X |
| 1950 | Polk-Clement Directory Co. Inc., | - | X | X | X |
| | Polk-Clement Directory Co. Inc., | X | X | X | X |
| 1946 | Polk-Clement Directory Co. Inc., | - | X | X | X |
| | Polk-Clement Directory Co. Inc., | X | X | X | X |
| 1940 | Polk-Clement Directory Co. Inc., | - | X | X | X |
| | Polk-Clement Directory Co. Inc., | X | X | X | X |
| 1935 | Polk-Clement Directory Co. Inc. | X | X | X | X |
| 1930 | Polk-Clement Directory Co. Inc., | X | X | X | X |
| 1925 | Polk-Clement Directory Co., Publishers | - | X | X | X |
| | Polk-Clement Directory Co., Publishers | X | X | X | X |

# EXECUTIVE SUMMARY

## SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

| *Address* | *Type* | *Findings* |
|---|---|---|
| 328 Northampton | Client Entered | X |
| 211 Eaton | Client Entered | X |
| 1222 Jefferson Avenue | Client Entered | X |
| 330 Northampton | Client Entered | |

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

1200 Jefferson Avenue
Buffalo, NY 14208

### FINDINGS DETAIL

Target Property research detail.

### Eaton

**211 Eaton**

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Hadley Geo N whse | Polk-Clement Directory Co. Inc., | Image pg. A74 |
| 1946 | Hadley Geo N storeroom | Polk-Clement Directory Co. Inc., | Image pg. A81 |
| 1940 | Mandel Augusta umbrellas | Polk-Clement Directory Co. Inc., | Image pg. A88 |
| 1935 | Mandell Augusta umbrellas | Polk-Clement Directory Co. Inc. | Image pg. A95 |
| 1930 | Mandel Augusta A umbrellas | Polk-Clement Directory Co. Inc., | Image pg. A103 |

### JEFFERSON AVE

**1200 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| ~~1960~~ | Riley E H | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| ~~1935~~ | Landsheft Henry J auto body mfr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| ~~1930~~ | 1200 04 Landsheft Henry auto pntr | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1222 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| ~~1985~~ | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| ~~1980~~ | Allen Construction Co | R. L. Polk Co., Publishers | Image pg. A31 |
| | Dowdy C | R. L. Polk Co., Publishers | Image pg. A31 |
| ~~1975~~ | Perry Hattie | R. L. Polk Co. | Image pg. A37 |
| | Vacant | R. L. Polk Co. | Image pg. A37 |
| ~~1970~~ | BROWN MARTHA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | MC ARTHUR ABR | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| ~~1964~~ | Eldridge May Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Hadleys Wallpaper & Paint | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| ~~1960~~ | Eldridge May Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Hadley Geo N wallpaper retail | Polk-Clement Directory Co. Inc., | Image pg. A60 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Herrscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Riley Edw | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Hadley Geo N wall paper | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Herrscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Eldridge May Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Hadley Geo N wall aper | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Herscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Eldridge May Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Hanley Geo N wall paper | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Herscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Hadley Geo N wall paper | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Herrscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Eldridge May Mrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Hadley Geo N wall paper | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Michel Lillian M Mrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Rosanski Wm barber | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Wagner Fred | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | GEORGE Fred soft drinks | Polk-Clement Directory Co., Publishers | Image pg. A112 |
| | GEORGE Peter cook r | Polk-Clement Directory Co., Publishers | Image pg. A113 |

## Jefferson Avenue

**1222 Jefferson Avenue**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Allen Construction Co | R. L. Polk Co., Publishers | Image pg. A31 |
| | Dowdy C | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Perry Hattie | R. L. Polk Co. | Image pg. A37 |
| | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | BROWN MARTHA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | MC ARTHUR ABR | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Eldridge May Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Hadleys Wallpaper & Paint | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Eldridge May Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Hadley Geo N wallpaper retail | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Herrscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Riley Edw | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Hadley Geo N wall paper | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Herrscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A66 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Eldridge May Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Hadley Geo N wall aper | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Herscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Eldridge May Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Hanley Geo N wall paper | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Herscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Hadley Geo N wall paper | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Herrscher Clara M | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Eldridge May Mrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Hadley Geo N wall paper | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Michel Lillian M Mrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Rosanski Wm barber | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Wagner Fred | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | GEORGE Fred soft drinks | Polk-Clement Directory Co., Publishers | Image pg. A114 |
| | GEORGE Peter cook r | Polk-Clement Directory Co., Publishers | Image pg. A115 |

## Northampton

**328 Northampton**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | COOPER SHIRLEY N MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | MC LEAN RUDOLPH A | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Davis Manasus | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Payne Lillian Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Williams Nathaniel | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Johnson John | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Meredith Legertha | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Polk Lucille J | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Garvin Artis | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Jones Jas | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Duggan Michl J | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Radtke Henry F | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Streicher Frank C slsmn S J Shulman r | Polk-Clement Directory Co., Publishers | Image pg. A116 |

# FINDINGS

**330 Northampton**

| ***Year*** | ***Uses*** | ***Source*** |
|---|---|---|

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

## EATON ST

### 210 EATON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | No return | Polk-Clement Directory Co. Inc., | Image pg. A68 |

### 211 EATON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Hadley Geo N whse | Polk-Clement Directory Co. Inc., | Image pg. A74 |
| 1946 | Hadley Geo N storeroom | Polk-Clement Directory Co. Inc., | Image pg. A81 |
| 1940 | Mandel Augusta umbrellas | Polk-Clement Directory Co. Inc., | Image pg. A88 |
| 1935 | Mandell Augusta umbrellas | Polk-Clement Directory Co. Inc. | Image pg. A95 |
| 1930 | Mandel Augusta A umbrellas | Polk-Clement Directory Co. Inc., | Image pg. A103 |

### 212 EATON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Wilson Wm J auto repr | Polk-Clement Directory Co. Inc., | Image pg. A74 |
| 1946 | Buss Robt H auto repr | Polk-Clement Directory Co. Inc., | Image pg. A81 |
| 1940 | Hall Glenn L auto repr | Polk-Clement Directory Co. Inc., | Image pg. A88 |

### 216 EATON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A39 |
| 1970 | SHALLOWHORN WADE H | R.L. Polk Company, Inc., Publishers | Image pg. A46 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A54 |

### 218 EATON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A39 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A46 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A54 |

## GERHARD ST

### 17 GERHARD ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | SAUERWEIN Henry C pntr h | Polk-Clement Directory Co., Publishers | Image pg. A118 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Dellwardt Fredk r | Polk-Clement Directory Co., Publishers | Image pg. A117 |
| | Wokasien Minnie mach opr r | Polk-Clement Directory Co., Publishers | Image pg. A119 |
| | Wokasien Louis lab r | Polk-Clement Directory Co., Publishers | Image pg. A119 |
| | Lena wid Christ h | Polk-Clement Directory Co., Publishers | Image pg. A119 |
| | Wokasien John elk Ellicott Drug Co h | Polk-Clement Directory Co., Publishers | Image pg. A119 |

**19 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Wuerthner John E slsmn h | Polk-Clement Directory Co., Publishers | Image pg. A120 |

**21 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Park Thos F tires h | Polk-Clement Directory Co., Publishers | Image pg. A121 |
| | Wallace A inspr h | Polk-Clement Directory Co., Publishers | Image pg. A121 |

**23 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Fleirl Oscar A stmftr Dark & Co Inc r | Polk-Clement Directory Co., Publishers | Image pg. A122 |

**27 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Fogg Chas H lab h | Polk-Clement Directory Co., Publishers | Image pg. A123 |

**29 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Nichter Milton reprmn r | Polk-Clement Directory Co., Publishers | Image pg. A125 |
| | Castine Louis inspr h | Polk-Clement Directory Co., Publishers | Image pg. A124 |
| | Nichter Wm chauf Goold Bros r | Polk-Clement Directory Co., Publishers | Image pg. A125 |
| | Nichter Raymond reprmn r | Polk-Clement Directory Co., Publishers | Image pg. A125 |

**30 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Van Amburg Harry W br mgr Ellicott Motor Service Corp h | Polk-Clement Directory Co., Publishers | Image pg. A126 |

**31 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Heath Burr R electn h | Polk-Clement Directory Co., Publishers | Image pg. A127 |
| | Spang Margt h | Polk-Clement Directory Co., Publishers | Image pg. A129 |
| | HELLER Pauline dom r | Polk-Clement Directory Co., Publishers | Image pg. A128 |

# FINDINGS

**33 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Deck Albert J asst chf electn Bureau of Bldgs h | Polk-Clement Directory Co., Publishers | Image pg. A130 |

**34 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | WOLF Harold musician r | Polk-Clement Directory Co., Publishers | Image pg. A132 |
| | Esther bkpr J J Siegrist & Co r | Polk-Clement Directory Co., Publishers | Image pg. A131 |
| | WOLF Emma wid Fred r | Polk-Clement Directory Co., Publishers | Image pg. A131 |
| | WOLF Rose elk r | Polk-Clement Directory Co., Publishers | Image pg. A132 |
| | WOLF Max mach opr r | Polk-Clement Directory Co., Publishers | Image pg. A132 |
| | WOLF Mannie tailor h | Polk-Clement Directory Co., Publishers | Image pg. A132 |

**36 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Dickenherr Jacob H ptrn mkr h | Polk-Clement Directory Co., Publishers | Image pg. A133 |
| | Dickenherr Frances clk Britenstool Jaffe Bramson r | Polk-Clement Directory Co., Publishers | Image pg. A133 |
| | JORDAN Thos V chauf r | Polk-Clement Directory Co., Publishers | Image pg. A134 |

**38 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Harry Howard J auto mech h | Polk-Clement Directory Co., Publishers | Image pg. A135 |

**39 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Schimpf Jos A elk h | Polk-Clement Directory Co., Publishers | Image pg. A136 |

**41 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Harsch Arth C bkpr Marine Trust Co r | Polk-Clement Directory Co., Publishers | Image pg. A137 |
| | Jacob J janitor h | Polk-Clement Directory Co., Publishers | Image pg. A137 |
| | HARSCH GEORGE P Hi Grade Auto Painting Lettering Monograming Striping We Make Your Car Look Like New All Work Guaran | Polk-Clement Directory Co., Publishers | Image pg. A137 |

**42 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Mary wid Frank h | Polk-Clement Directory Co., Publishers | Image pg. A138 |
| | Howell Marjorie sisldy F W Woolworth Co rl | Polk-Clement Directory Co., Publishers | Image pg. A138 |

# FINDINGS

**44 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Buchner Augusta smstrs Hens & Kelly Co r | Polk-Clement Directory Co., Publishers | Image pg. A139 |
| | Buchner Geo slsmn Richd J Martin r | Polk-Clement Directory Co., Publishers | Image pg. A139 |
| | Buchner Frank wtchmn h | Polk-Clement Directory Co., Publishers | Image pg. A139 |

**48 GERHARD ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Strathman Mildred F bkpr r | Polk-Clement Directory Co., Publishers | Image pg. A140 |
| | Strathman Wm plmbr | Polk-Clement Directory Co., Publishers | Image pg. A140 |

## GERHARDT ST

**17 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | 19 No Current Listing 2 Hses | Polk City Directories | Image pg. A1 |
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A17 |
| | Jones Helen M Mrs | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Jones Robert | R. L. Polk Co., Publishers | Image pg. A25 |
| | Jones Helen M Mrs | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Lowmack James | R. L. Polk Co., Publishers | Image pg. A32 |
| | Jones Helen M Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A40 |
| | Jones Helen M Mrs | R. L. Polk Co. | Image pg. A40 |
| 1970 | LARITZ BEAUTY SALON | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| | JONES HELEN | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Lilly Azar V Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| | Ritz Beauty Salon | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Wokasien Minnie C | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Metz Mary M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Varley Arth | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Wokasien Minnie C | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Varley Arth | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Wolkasien Minnie C | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Varley Arth | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Wokasien Minnie C | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Wokasien Minnie C | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Sauerwein Henry C | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Wokasien Minnie C | Polk-Clement Directory Co. Inc. | Image pg. A98 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Sauerwein Henry C | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Sauerwein Henry C | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| | Wokasien Mintie | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| 1925 | Evelyn mach opr r | Polk-Clement Directory Co., Publishers | Image pg. A141 |
| | Sauerwein Albert formn h | Polk-Clement Directory Co., Publishers | Image pg. A141 |

**18 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Not Verified | EQUIFAX Polk City Directory | Image pg. A7 |
| | Washington A | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Lyles Pansy | R. L. Polk Co., Publishers | Image pg. A17 |
| | Hyman Leon | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Lyles Pansy E Mrs | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Lyles Beverly E Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| | Dent Clarence D | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Lyles Beverly E | R. L. Polk Co. | Image pg. A40 |
| | Dent Clarence D | R. L. Polk Co. | Image pg. A40 |
| 1970 | LYLES BEVERLY E | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Lyles Beverly E | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Lyles Beverly E | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Thompson Saml | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Melera Walter W | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Young Orrin | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Melera Walter | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Young Orrin | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Whinihan Paul K | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Melera Walter | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Deal Chas R | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Nigro Vincent | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Deal Chas R | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Williamson Reva M | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Liebel Geo Re | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| 1925 | KELLY Walter lab h | Polk-Clement Directory Co., Publishers | Image pg. A142 |
| | Walter lab r | Polk-Clement Directory Co., Publishers | Image pg. A142 |
| | LIEBEL Ethel M sten r | Polk-Clement Directory Co., Publishers | Image pg. A143 |
| | LIEBEL Ceo R driver h | Polk-Clement Directory Co., Publishers | Image pg. A143 |
| | LIEBEL Gilbert F lab r | Polk-Clement Directory Co., Publishers | Image pg. A143 |

# FINDINGS

**19 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | De Laine L | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | De Laine Lillian C Mrs | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | De Laine Lillian C Mrs | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | De Laine Lillian C Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | De Laine Leroy E | R. L. Polk Co. | Image pg. A40 |
| 1970 | DELAINE LEROY | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | De Laine Leroy | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | DeLaine Leroy | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Kerns Albert | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Wuerthner John E | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Wuerthner John L | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Wuerthner John E | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Wuerthner John E | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Wuerthner John E | Polk-Clement Directory Co. Inc., | Image pg. A106 |

**20 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Barbour Land Diane D E | Polk City Directories | Image pg. A1 |
| 2001 | Land H Jr | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Barbour Dianne | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Tucker Mildred | R. L. Polk Co., Publishers | Image pg. A25 |
| | Barber Robt | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Walkins | R. L. Polk Co., Publishers | Image pg. A32 |
| | Harnes Patricia | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Barbour Robt | R. L. Polk Co. | Image pg. A40 |
| | Dent Clarence D Jr | R. L. Polk Co. | Image pg. A40 |
| 1970 | KAY DOLORES D MRS | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| | BARBOUR ROBT | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Barbbur Robt | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| | Ruff Jas H | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Barbour Robt | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Witherspoon Moses L | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Barone Fanny | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Nehman Delphine D Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Barone Fanny | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Nehman Eug W | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Nehman Eug W | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Hoffman Jacob F | Polk-Clement Directory Co. Inc., | Image pg. A84 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Klingenschmitt Jacob | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Nehman Eug W | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Hoffman Jacob F | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Klingenschmitt Jacob | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Klingenschmitt Jacob | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Hoffman Jacob F | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Klingenschmitt Jacob | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| | Hoffman Jacob F | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| 1925 | Klingenschmitt Jacob carp h | Polk-Clement Directory Co., Publishers | Image pg. A144 |
| | Ratzel Chas J sten r | Polk-Clement Directory Co., Publishers | Image pg. A145 |
| | Ratzel Chas P waiter h | Polk-Clement Directory Co., Publishers | Image pg. A145 |
| | Ratzel Clarence L press opr r | Polk-Clement Directory Co., Publishers | Image pg. A145 |
| | Clemens G driver r | Polk-Clement Directory Co., Publishers | Image pg. A145 |

## Gerhardt St

**21 Gerhardt St**

| Year | Uses | Source |
|---|---|---|
| 2014 | COMMUNITY CONTG CONSULTING INC | EDR Digital Archive |
| | COMMUNITY CONTG CONSULTING INC | EDR Digital Archive |

## GERHARDT ST

**21 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A1 |
| 2001 | Springs A | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Wilson Kathy | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Pate Nelhrie | R. L. Polk Co., Publishers | Image pg. A25 |
| | Wilson Edwin | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Wilson Edwin | R. L. Polk Co., Publishers | Image pg. A32 |
| | Pate Nelhrie | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Lee Abr | R. L. Polk Co. | Image pg. A40 |
| | Pate Nell Mrs | R. L. Polk Co. | Image pg. A40 |
| 1970 | LEE ABR | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Lee Abr | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| | Heard Jesse | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Lee Abr | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Blackburn Thos L | Polk-Clement Directory Co. Inc., | Image pg. A69 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Maier Selma Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Blackburn Thos L | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Weiss Gustaph A | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Blackburn Thos L | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Weiss Gustaph A | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Blackburn Thos L | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Nowak Chas | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Blackburn Thos L | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Schwichtenberg Chas A | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Blackburn Thos L | Polk-Clement Directory Co. Inc., | Image pg. A106 |

**22 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | D Hardy Leon | Polk City Directories | Image pg. A1 |
| | Gibson Letitia M E | Polk City Directories | Image pg. A1 |
| 2001 | James Susan E | EQUIFAX Polk City Directory | Image pg. A7 |
| | Gibson Letitia M | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A17 |
| | Meregith Patricia | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Meredith Aurelia Mrs | R. L. Polk Co., Publishers | Image pg. A25 |
| | Terrell Sylvester Jr | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Brown Peggie | R. L. Polk Co., Publishers | Image pg. A32 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A40 |
| | Fasion Mae Mrs | R. L. Polk Co. | Image pg. A40 |
| 1970 | CENKNER AUG A | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Cenkner Aug | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Cenkner Aug A | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Fitzgerald John J | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Cenkner Aug A | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Bleasdale Robt | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Cenkner Aug A | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Bleasdale Robt | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Carlino Angeline M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | White Clinton | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | May John A | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | White Clayton | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Beutler Sarah J Mrs | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Jandes Marguerite Mrs | Polk-Clement Directory Co. Inc. | Image pg. A98 |

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Isker Paul F | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| | Gentes Margt Mrs | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| 1925 | Jantas Margt wid Adolph h | Polk-Clement Directory Co., Publishers | Image pg. A146 |
| | Muchlberger John barber h | Polk-Clement Directory Co., Publishers | Image pg. A147 |

**23 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Davis Charles E Sr & Everlyene 34 i | Polk City Directories | Image pg. A1 |
| 2001 | Davis Everlyene | EQUIFAX Polk City Directory | Image pg. A7 |
| | Davis Patricia L | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Davis Charles E | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Davis Charles | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Davis E | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Kay D D | R. L. Polk Co. | Image pg. A40 |
| 1970 | SMITH JOHN A | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Smith John A | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Fleisch Chas J | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Fleisch Chas J | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Fleisch Oscar A | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Fleisch Oscar A | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Fleisch Oscar A | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Fleisch Oscar A | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Pleiseh Oscar AO | Polk-Clement Directory Co. Inc., | Image pg. A106 |

## Gerhardt St

**26 Gerhardt St**

| Year | Uses | Source |
|---|---|---|
| 2014 | HOUSE OF CREATIVE DESIGNZ | EDR Digital Archive |
| | HOUSE OF CREATIVE DESIGNZ | EDR Digital Archive |
| 2010 | HOUSE OF CREATIVE DESIGNZ | EDR Digital Archive |
| | HOUSE OF CREATIVE DESIGNZ | EDR Digital Archive |

## GERHARDT ST

**26 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Bilbo Brenda J | Polk City Directories | Image pg. A1 |
| | Falson Mary E | Polk City Directories | Image pg. A1 |
| | Faison Tajanae | Polk City Directories | Image pg. A1 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Green James Jr | Polk City Directories | Image pg. A1 |
| 2001 | Faison Mary E | EQUIFAX Polk City Directory | Image pg. A7 |
| | Green James | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Faison Mary | R. L. Polk Co., Publishers | Image pg. A17 |
| | Gaines Robt A | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Gaines Robert | R. L. Polk Co., Publishers | Image pg. A25 |
| | Faison Mary | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Johnson Carol | R. L. Polk Co., Publishers | Image pg. A32 |
| | Faison Mary | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A40 |
| | Mc 33rath Christine Mrs | R. L. Polk Co. | Image pg. A40 |
| 1970 | GREEN ROSEZVA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Jones Evans | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| | Montogomery Jas | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Mack Emanuel | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Clark Howard | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Jones Callie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Sauter Anna M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Magill David | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Sauter Anna M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Magill David | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Sauter Anna M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Wokasien Harold T | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Sauter Frank A | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Schlabitz Fred | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Sauter Frank A | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Mangold Edw W | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | i Sauter Frank M | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| | Sehrer Margt Mrs | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| 1925 | Sauter Frank A chauf h | Polk-Clement Directory Co., Publishers | Image pg. A148 |
| | Sauter Philip bench hd Stewart Motor Corp h 459 | Polk-Clement Directory Co., Publishers | Image pg. A148 |
| | Ruth elk Geo Heldmann r | Polk-Clement Directory Co., Publishers | Image pg. A148 |
| | Sehrer Chas linemn r | Polk-Clement Directory Co., Publishers | Image pg. A149 |
| | Sehrer Chas linemn r | Polk-Clement Directory Co., Publishers | Image pg. A149 |
| | Kathryn elk r | Polk-Clement Directory Co., Publishers | Image pg. A149 |
| | Sehrer Margt wid Peter h | Polk-Clement Directory Co., Publishers | Image pg. A149 |

# FINDINGS

**27 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Chisholm James E | R. L. Polk Co. | Image pg. A40 |
| | Reed Virginia Mrs | R. L. Polk Co. | Image pg. A40 |
| | Ortiz Mytra | R. L. Polk Co. | Image pg. A40 |
| 1970 | CHISHOLM JAMES E | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Fogg Theresa A Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Fogg Theresa M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Fogg Theresa M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Georger Eug | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Fogg Chas H | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | White Clinton | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Fogg Chas H | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | White Clinton | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Fogg Chas H | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Strait Harold B | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Fogg Chas H | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Schisler Jas D | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Fogg Ghas H | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| | Strehe Wim | Polk-Clement Directory Co. Inc., | Image pg. A106 |
| | GERHARDT Contd | Polk-Clement Directory Co. Inc., | Image pg. A107 |

**29 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Byrd Barbara L | Polk City Directories | Image pg. A1 |
| 2001 | Byrd Anna M | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Byrd Anna M Mrs | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Barbara Diane D | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Barbara Robt | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Castine Margt E | R. L. Polk Co. | Image pg. A40 |
| 1970 | CASTINE HELEN MRS | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Castine Helen G Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Castline Helen C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Castine Helen C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Castine Helen C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Castine Helen C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Castine Helen C Mrs coal | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Castine Louis T Coal | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Castine Louis T | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| | Nichter Norbert F garage | Polk-Clement Directory Co. Inc., | Image pg. A107 |

# FINDINGS

**30 GERHARDT ST**

| *Year* | *Uses* | *Source* | |
|---|---|---|---|
| 2008 | Wilson Edwin L Jr & Kathy 52 A | Polk City Directories | Image pg. A1 |
| 2001 | Not Verified | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Terrell Sylvester | R. L. Polk Co., Publishers | Image pg. A17 |
| | Williams Edwin | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Jones Evans | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Jones Evens | R. L. Polk Co., Publishers | Image pg. A32 |
| | Stevens Maryann Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Jones Evans | R. L. Polk Co. | Image pg. A40 |
| | Stevens Mary Mrs | R. L. Polk Co. | Image pg. A40 |
| 1970 | JONES EVANS | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| | MONTGOMERY JAMES A | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Wechter Eug W | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Williams Rebecca Mrs | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Wechter Eug W | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Wechter Lester E jr | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Wechter Eug W | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Wechter Lester E jr | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Wechter Eug W | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Schueler Geo F | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Wechter Eug W | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Schueler Geo F | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Smith Wm H | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Wechter Eug W | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Wechter Eug W | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Kruse Matthew | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Wecheter Esug W vulc | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| 1925 | Wechter Eug vulcanizer | Polk-Clement Directory Co., Publishers | Image pg. A150 |

**31 GERHARDT ST**

| *Year* | *Uses* | *Source* | |
|---|---|---|---|
| 2008 | Rodriquez J J | Polk City Directories | Image pg. A1 |
| | Spikes Tonja W | Polk City Directories | Image pg. A1 |
| 2001 | Motley Edith | EQUIFAX Polk City Directory | Image pg. A7 |
| | Tenike Jai A | EQUIFAX Polk City Directory | Image pg. A7 |
| | White Deborah | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Gordon Rebecca Mrs | R. L. Polk Co., Publishers | Image pg. A17 |
| | Brown Luther | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Gordon Rebecca Mrs | R. L. Polk Co., Publishers | Image pg. A25 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Brown Luther | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Gordon Rebecca Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| | Brown Luther | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Gordon Rebecca Mrs | R. L. Polk Co. | Image pg. A40 |
| | Vacant | R. L. Polk Co. | Image pg. A40 |
| 1970 | GORDON REBECCA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| | WARREN WILLIE N | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Warren Willie N | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| | Gordon Philip | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Lemons Edw | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Heckel Edw J | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Metz Donald R | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Heckel Edw J | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Schenk Elmer F | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Frampton Walter F | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Oliver Alf | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Frampton Walter F | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Stocker Raymond | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Frampton Walter F | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Boyle Wm H | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Arendt Henry N | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| | Soang Margt Mrs | Polk-Clement Directory Co. Inc., | Image pg. A107 |

**33 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Burns Charles R E | Polk City Directories | Image pg. A1 |
| | Burns Henry | Polk City Directories | Image pg. A1 |
| 2001 | Burns Charles R | EQUIFAX Polk City Directory | Image pg. A7 |
| | Burns Henry | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Burns Charles R | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Burns Charles R | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Burns Charles R | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Burns Charles R D | R. L. Polk Co. | Image pg. A40 |
| 1970 | BURNS CHARLES R | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Burns Chas R | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Burns Chas R | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Deck Harriet M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Deck Albert J | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Deck Albert J | Polk-Clement Directory Co. Inc., | Image pg. A84 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Deck Albert J | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Deck Albert J | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Deck Albert J | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| 1925 | Deck Angela cashr Andrew Oliver r | Polk-Clement Directory Co., Publishers | Image pg. A151 |

**34 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Thomas Harmon S & Thelma | Polk City Directories | Image pg. A1 |
| | No Current Listing | Polk City Directories | Image pg. A1 |
| 2001 | Thomas Thelma | EQUIFAX Polk City Directory | Image pg. A7 |
| | Thomas Harmon | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Thomas Harmon | R. L. Polk Co., Publishers | Image pg. A17 |
| | Thomas Minnie | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Thomas Herman | R. L. Polk Co., Publishers | Image pg. A25 |
| | Thomas Minnie | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Howze Mary F Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| | May Minnie Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| | Thomas Harmon | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Thomas Harmon | R. L. Polk Co. | Image pg. A40 |
| | Howze Mary F Mrs | R. L. Polk Co. | Image pg. A40 |
| 1970 | EVANS RAYMOND D | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Hardy Walter | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| | Thompson Wm A | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Hill Jas C | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | rear Hunter Leo M | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Hill Jas C | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | rear Brown Raymond | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Gurney Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Kern Albert | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Sydow Paul A | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Banks Beatrice | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Hoch Christopher J | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Green John J | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Lanahan John T | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Hughes Harry E | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Frank Chas C jr | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Wolf Mannie | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Kulick Louis huckster | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | rear Frank Chas C | Polk-Clement Directory Co. Inc. | Image pg. A98 |

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Sternback Anna Mrs | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| | Wolf Mannie | Polk-Clement Directory Co. Inc., | Image pg. A107 |

**36 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Stewardt Perry S | Polk City Directories | Image pg. A1 |
| 2001 | Stewardt Perry | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Brown D | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Reeves Elvis | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Reeves Ruby Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Reeves Ruby Mrs | R. L. Polk Co. | Image pg. A40 |
| 1970 | REEVES RUBY L MRS | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Jordan Julia Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Jordan Julia Mrs | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Dickenherr Jacob H | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Dickenherr Jacob H | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Dickenherr Jacob H | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Dickenherr Jacob H | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Dickenherr Jacob H | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Dickenherr Jacob | Polk-Clement Directory Co. Inc., | Image pg. A107 |

**38 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Wilde Karl R | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Brockman Edwin | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Brockman Edwin | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Ferris Viola G | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Harris Ada L Mrs | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Harris Ada Mrs | Polk-Clement Directory Co. Inc., | Image pg. A107 |

## Gerhardt St

**39 Gerhardt St**

| Year | Uses | Source |
|---|---|---|
| 2014 | GRAY CHARLENE T | EDR Digital Archive |
| | GRAY CHARLENE T | EDR Digital Archive |

# FINDINGS

## GERHARDT ST

### 39 GERHARDT ST

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Stancil Napolean & Carrie M | Polk City Directories | Image pg. A1 |
| 2001 | Stancil Carrie M | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Crosby Mary Eliz Mrs | R. L. Polk Co., Publishers | Image pg. A17 |
| | Stancil Napoleon | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Crosby Mary Eliz Mrs | R. L. Polk Co., Publishers | Image pg. A25 |
| | Stancil Napoleon | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Crosby Mary Eliz Mrs | R. L. Polk Co., Publishers | Image pg. A32 |
| | Stancil Napeleon | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Crosby Mary E Mrs | R. L. Polk Co. | Image pg. A40 |
| | Stancil Napeleon | R. L. Polk Co. | Image pg. A40 |
| 1970 | CHRISTMAS LILLIE A MRS | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| | STANCIL NAPOLEAN | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Hammond Henry | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Schimpf Jos A | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Schimpf Jos A | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Brown Robt R | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Schimpf Jos A | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Schimpf Jos A | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Brown Gerald A | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Schimpf Jos A | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Nichter Jos G | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Jarvis Jas A | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Schimpf Jos A | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Schimpf Jos | Polk-Clement Directory Co. Inc., | Image pg. A107 |

### 41 GERHARDT ST

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | 2 Not Verified | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Mc Culley Kenneth | R. L. Polk Co., Publishers | Image pg. A17 |
| | Green James Jr | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Martin M Mrs | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Martin M | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | No Return | R. L. Polk Co. | Image pg. A40 |
| | Vacant | R. L. Polk Co. | Image pg. A40 |
| 1970 | LAMB ALBERTA | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| | SMITH EDNA | R.L. Polk Company, Inc., Publishers | Image pg. A47 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | SMITH HARRY | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Lamb Albert | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Harsch Jacob J | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Harsch Jacob J | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Harsch Jacob J | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Harsch Jacob J | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Harsch Jacob J | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Harsch Jacob J | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Harsch Jacob J | Polk-Clement Directory Co. Inc., | Image pg. A107 |

**42 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Austin Charles | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Smith Winfrey III | R. L. Polk Co., Publishers | Image pg. A17 |
| 1985 | Williams Mary | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Williams Mary | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A40 |
| 1970 | DAVIS FRED | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Hoffman Clarence C | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Hoffman Clarence C | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Hoffman Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Hoffman Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Hoffman Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Hoffman Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Hoffman Mary Mrs | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Hoffman Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A107 |

**43 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A1 |
| 2001 | Johnson John H | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Johnson John H | R. L. Polk Co., Publishers | Image pg. A17 |
| | Stevenson Amos | R. L. Polk Co., Publishers | Image pg. A18 |
| 1985 | Steven Amos | R. L. Polk Co., Publishers | Image pg. A25 |
| | Johnson John | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Johnson John H | R. L. Polk Co., Publishers | Image pg. A32 |
| | Powell Rhoda | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Johnson John H | R. L. Polk Co. | Image pg. A40 |
| | Warren Mildred L Mrs | R. L. Polk Co. | Image pg. A40 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | WARREN MILDRED L MRS | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| | JOHNSON JOHN H | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Forster Jos P | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Ball Geo | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Forster Jos P | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Ball Geo | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Forster Jos P | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Ball Geo | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| | Forster Jos P | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Ball Geo | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Forster Jos P | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Eckl Jos M | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| | Forster Jos P | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Eckl Jos M | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Forster Jos P | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Eckl Jos M | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| | Forster Jos | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| 1925 | FORSTER Jos P mach h | Polk-Clement Directory Co., Publishers | Image pg. A153 |
| | Eckl Jos M prsmn h | Polk-Clement Directory Co., Publishers | Image pg. A152 |

**44 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Clark Terrell | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | White Mattie L Mrs | R. L. Polk Co., Publishers | Image pg. A18 |
| 1985 | White Mattie L Mrs | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Mc Knight Dennis | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Brown Earl e | R. L. Polk Co. | Image pg. A40 |
| 1970 | BUCHNER GEO H | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Buchner Geo | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Buchner Geo H | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Buchner Augusta H Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Buchner Augusta H Mrs | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Buchner Augusta H Mrs | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Buchner Augusta H Mrs | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Buchner Augusta Mrs | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Biuchlner Augusta Mrs | Polk-Clement Directory Co. Inc., | Image pg. A107 |

# FINDINGS

**47 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Gibson John C | Polk City Directories | Image pg. A1 |
| 2001 | Gibson John C | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Gibson John | R. L. Polk Co., Publishers | Image pg. A18 |
| 1985 | Gibson John | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Gibson John | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Gibson John | R. L. Polk Co. | Image pg. A40 |
| 1970 | GIBSON JOHN | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Blenker Walter M | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Blenker Walter M | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Blenker Walter M | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Blenker Walter M | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Blenker Walter M | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Blenker Walter M | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Blenker Margt Mrs | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Blenker Walter M | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Blinker Wm | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| 1925 | Blinker Jas J mech r | Polk-Clement Directory Co., Publishers | Image pg. A154 |
| | Blinker Walter M mach r | Polk-Clement Directory Co., Publishers | Image pg. A154 |
| | Blinker Wmin paperhngr h | Polk-Clement Directory Co., Publishers | Image pg. A154 |

**48 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A18 |
| 1985 | Brundige William | R. L. Polk Co., Publishers | Image pg. A25 |
| | Green Deborah A | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Brundige William | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A40 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Brown Earl | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| | Monroe Lena Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Strathman Ruth A | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Hanson Antouine | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Strathaman Sarah A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| | Busher Marie | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Strathman Sarah A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Strathman Sarah A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| | Mullen Eug J | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Strathman Sarah A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A91 |

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Gilbert Don W | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Strathman Sarah A Mrs | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| | Treffinger Harold J | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Strathman Sarah A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A107 |

**50 GERHARDT ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Lecounte Belinda | EQUIFAX Polk City Directory | Image pg. A7 |
| 1992 | Griffin Anthony | R. L. Polk Co., Publishers | Image pg. A18 |
| 1985 | Galimore Shirley | R. L. Polk Co., Publishers | Image pg. A25 |
| 1980 | Hicka Mamie | R. L. Polk Co., Publishers | Image pg. A32 |
| 1975 | Bradley Wm D | R. L. Polk Co. | Image pg. A40 |
| 1970 | BRADLEY WM D | R.L. Polk Company, Inc., Publishers | Image pg. A47 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A55 |
| 1960 | Lamb Albert | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Weatherington Chas W | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| | Thornton Beatrice | Polk-Clement Directory Co. Inc., | Image pg. A62 |
| 1955 | Lamb Albert | Polk-Clement Directory Co. Inc., | Image pg. A69 |
| 1950 | Achendorf Robt B | Polk-Clement Directory Co. Inc., | Image pg. A77 |
| 1946 | Achendorf Robt B | Polk-Clement Directory Co. Inc., | Image pg. A84 |
| 1940 | Schraft Frank W | Polk-Clement Directory Co. Inc., | Image pg. A91 |
| 1935 | Schraft Frank W | Polk-Clement Directory Co. Inc. | Image pg. A98 |
| 1930 | Schraft Frank W | Polk-Clement Directory Co. Inc., | Image pg. A107 |
| 1925 | POTTER Frank W elk h | Polk-Clement Directory Co., Publishers | Image pg. A155 |
| | t Fred millwright h | Polk-Clement Directory Co., Publishers | Image pg. A155 |
| | POTTER Grace Hazel M dom r | Polk-Clement Directory Co., Publishers | Image pg. A155 |

## JEFFERSON AV H421 ST

**1247 JEFFERSON AV H421 ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Weisenberg Adolph mens furngs | Polk-Clement Directory Co., Publishers | Image pg. A156 |

## JEFFERSON AV H81 ST

**1254 JEFFERSON AV H81 ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Edw F womens furngs | Polk-Clement Directory Co., Publishers | Image pg. A157 |
| | Caston Dallas student r | Polk-Clement Directory Co., Publishers | Image pg. A157 |

# FINDINGS

## JEFFERSON AVE

### 1130 JEFFERSON AVE

| Year | Uses | Source | |
|---|---|---|---|
| 1998 | Bradley William | The Polk Company,City Directory Division | Image pg. A13 |
| 1992 | Allen Chas | R. L. Polk Co., Publishers | Image pg. A19 |
| | Bradley Willie | R. L. Polk Co., Publishers | Image pg. A19 |
| | Matties Bar B Que | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Bradley Willie | R. L. Polk Co., Publishers | Image pg. A24 |
| | Matties Bradley Bar B Que restr | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Matties Barbeque restr | R. L. Polk Co., Publishers | Image pg. A31 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| | BROOKS JANICE | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| | MILLERS CLAYTON HIGH LIFE TAVERN | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| 1964 | Millers Clayton High Life Tavern | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Harris Woodrow | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Miller Clayton | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Barecca Anthony | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Millers Clayton High Life Tavern | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Clayton Millers High Life Tavern | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Miller Clayton | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Canfield Herbert K | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Sauers Tavern | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Hoffman Albert C | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Skill Philip barber | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Mackenburg Jos J | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Sauer Jos J restr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Skill Philip barber | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Machenburg Jos | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Sauer Jos restr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Angermyer Anthony restr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Skill Philip barber | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Ihle Bernard soft drinks | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | 1/ Cordaro Faust barber | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Ihde Bernard soft drinks | Polk-Clement Directory Co., Publishers | Image pg. A158 |

# FINDINGS

## Jefferson Ave

**1131 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2010 | THUMANS GARAGE INC | EDR Digital Archive |
| | THUMANS GARAGE INC | EDR Digital Archive |

## JEFFERSON AVE

**1131 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | THUMANS GARAGE INC brake | Polk City Directories | Image pg. A2 |
| 2001 | THUMAN GARAGE genl auto repr shop | EQUIFAX Polk City Directory | Image pg. A8 |
| 1998 | THUMAN GARAGE auto rpr | The Polk Company,City Directory Division | Image pg. A13 |
| 1992 | Thumans Garage Inc auto repr | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Thumans Garage Inc auto repr | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Thumans Garage Inc auto repr | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Thumans Garage Inc auto repr | R. L. Polk Co. | Image pg. A37 |
| 1970 | THUMANS GARAGE INC AUTO REPR | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| 1964 | Thumans Garage Inc auto repr | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Thumans Garage Inc auto repr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Oddos Sunoco Serv gas sta | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Craik Ales L gas sta | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Oldham Clifford G auto body repr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Thuman Sylvester C gas sta | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Thurman Sylvester filling sta | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Wishman Harry filling sta | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Thurman Sylvester auto repr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Gillen & Rohm filling sta | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Cities Service Oil Co filling sta | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Allied Oil Corn | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1132 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Baxtron & Son Home Improvement | R. L. Polk Co., Publishers | Image pg. A31 |
| | & Genl Contracting | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | TAYLOR MARION E MRS | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| 1964 | Taylor Marion E Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A52 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Johns Pretzel & Potato Chip Bakery | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Skill Philip | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Johns Pretzel & Potato Chip Bakery | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Skill Philip | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Johns Pretzel & Potato Chip Bakery | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Johns Pretzel & Potato Chip Bakery | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Johns Pretzel Bakery | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Helper Jos | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Fries Rose art gds | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Hildebrand Marie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Ratzel Anna Mrs gro | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | EgloffFrank M auto mech Mc Carthy Bros & Ford h | Polk-Clement Directory Co., Publishers | Image pg. A159 |
| | Ehret Aug confr | Polk-Clement Directory Co., Publishers | Image pg. A160 |
| | Varley Raymond auto mech h rear | Polk-Clement Directory Co., Publishers | Image pg. A161 |

**1133 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1135 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| 1964 | Miller Clayton H | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Diebolt Geo | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Diebolt Geo | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Howard Roy | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Boettcher John F | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Marsh Carl S | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Boettcher John F | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Zimmermann Irma beauty shop | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Murdie Dorothy C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Boettcher John F | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Mullen Edith L beauty shop | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Smith Ezileah Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Miller Emma L Mrs beauty shop | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Millison Robt J | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | DeFouche Theo R | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Larkins Saml B | Polk-Clement Directory Co. Inc. | Image pg. A96 |

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Miller Emma L beauty shop | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Foster Dani H | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Miller Sami A o | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Lavira Beauty Sho D | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1136 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Dan Dee Pretzel & Potato Chip Co | R. L. Polk Co. | Image pg. A37 |
| | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | JOHNS PRETZEL & POTATO CHIP BAKERY | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| 1964 | Johns Pretzel & Potato Chip Bakery | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Johns Pretzel & Potato Chip Bakery | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Johns Pretzel & Potato Chip Bakery | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Johns Pretzel & Potato Chip Bakery | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Wishman Harry G | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Wydro Frank | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Skill Philip | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Johns Pretzel & Potato Chip Bakery | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Wydro Frank | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Johns Pretzel Bakery | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Skill Philip | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Johns Wm F | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Johns Pretzel Bakery | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Johns Geo Hn baker | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Johns Geo H baker | Polk-Clement Directory Co., Publishers | Image pg. A162 |

## Jefferson Ave

**1137 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2010 | HARPERS AUTO SERVICE INC | EDR Digital Archive |
| | HARPERS AUTO SERVICE INC | EDR Digital Archive |

## JEFFERSON AVE

**1137 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | HARPERS AUTO SVC auto rpr | Polk City Directories | Image pg. A2 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | HARPERS AUTO SERVICE genl auto repr shop | EQUIFAX Polk City Directory | Image pg. A8 |
| 1998 | HARPERS AUTO SERVICE auto | The Polk Company,City Directory Division | Image pg. A13 |
| 1992 | Harpers Auto Service Inc | R. L. Polk Co., Publishers | Image pg. A19 |

**1138 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| | OWENS CATH MRS | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| 1964 | rear Carter Ann Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Crolle Jesse | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Collins Curtis C | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Asarese Russell barber | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Maedl Fredk C | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Hoehn Henry E | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Hoehn Henry E | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Hoehn Henry E | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Hoehn Henry E meatctr h | Polk-Clement Directory Co., Publishers | Image pg. A163 |

**1140 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant 2 Hses | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| | Rear Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Community Barber Shop | R. L. Polk Co. | Image pg. A37 |
| | RearWilliams Ruth | R. L. Polk Co. | Image pg. A37 |
| 1970 | ALMOND CURTIS | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| | SMITH CHARLES | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| | COMMUNITY BARBER SHOP | R.L. Polk Company, Inc., Publishers | Image pg. A48 |
| 1964 | Lane Harry uphol | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Halsell Mary | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | rear Smith Chas J | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Lane Harry uphol | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Shepherd Ethel J Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Lane Harry uphol | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Poling Leroy J pntr | Polk-Clement Directory Co. Inc., | Image pg. A66 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | rear Vacant | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Poling Leroy J pntr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Richards Jas P | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | D & D Amplifier & Radio Repair | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Gates | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Richards Jas P | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Ricnards Jas P | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Vacant store | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Poling Leroy J | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Barclay Alex | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | rear Richards Jas | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Lane Harry | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Miller Henrv | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Gallagher Minnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | ROBERTS Gerald C elk h rear | Polk-Clement Directory Co., Publishers | Image pg. A164 |

**1142 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | LaRitz Beauty Salon | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Watson Sidney | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Smith Marion M | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Macoff Merer | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Macoff Meyer junk | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Macoff Sheldon | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Macoff Meyer junk | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Lichtenwalter Caroline Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Spaeth Louis | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Dotzler Julius R | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Spaeth Louis | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Snaeth Jos sheet metal wkr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Snaeth Louis | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Liehtenwalter Peter | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Jos roofing | Polk-Clement Directory Co., Publishers | Image pg. A165 |
| | Spaeth John H hlpr r | Polk-Clement Directory Co., Publishers | Image pg. A165 |

**1143 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |

# FINDINGS

**1145 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant 2 Hses | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Car Care Center | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | U Auto Wash | R. L. Polk Co. | Image pg. A37 |
| 1970 | MEEKS AUTO REPAIR | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Thumans Garage Inc auto repr | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Thumans Garage Inc auto repr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Oldham Clifford G auto body repr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Lippert Motors used cars | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A75 |

**1147 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Dunbar Robt | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Lewis Chester C | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | No return | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Lewis Chester C | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Jones Franklin M | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Cooper Robt E | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Cooper Robt E | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Caswell Gordon T | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1149 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Kranock Frank E | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Krieger Edw | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Kranock Frank E | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | rear Barde Llyde | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Montana Jos | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | rear Thomson J Norman | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Montana Jos | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Thompson J Norman | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Lindsay Anna M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Thompson J Norman | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Gallagher Minnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Thompson J Norman | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Klippel Belle M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Gallagher Minnie Mrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Thomson Norman | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | rear Klein John | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Mercer Lawrence | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Wilson Harry F | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Sunnel Albert | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Dettman Chas wtchmn hl | Polk-Clement Directory Co., Publishers | Image pg. A166 |
| | GALLAGHER Jos lab h rear | Polk-Clement Directory Co., Publishers | Image pg. A167 |

**1150 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | BURGERLAND | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Burgerland Inc restr | R. L. Polk Co., Inc., Publishers | Image pg. A52 |

**1152 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Art Craft Paint Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Art Craft Signs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Mayer Robt H trucking | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Mayer Robt H trucking | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Mergler Theo F repr shop | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Palistraut Philin tailor | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1153 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Davis Clifton | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Carmichael Corrie | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Lyman Thos F | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Maguire Cath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Lyman Thos | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Maguire Cath B Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | McGuire Cath B Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Daluisio Frank J | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | MoGuire Cath B Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Daluisio Frank J | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Thiel Theo | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Thomson Harold E | Polk-Clement Directory Co. Inc., | Image pg. A89 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Vedder Richd N | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vedder Norton C | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Vedder Richd N | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Veddler Norton chiro Dractor | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Vedder Richd pntr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Vedder Richd N contr | Polk-Clement Directory Co., Publishers | Image pg. A168 |

**1154 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Steinbach Geo A | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Art Craft Sings | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Zilch Roy delicatessen | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Stunbach Geo | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Stunbach Geo | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Albrecht Harry L fruits | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Vacant store | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Henrich Otto confr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Henrich Otto confr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Pfohl Barbara Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Schnackenberg Chas confr | Polk-Clement Directory Co., Publishers | Image pg. A169 |

**1155 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A2 |
| 2001 | Not Verified | EQUIFAX Polk City Directory | Image pg. A8 |
| 1998 | Mc Clellan M | The Polk Company,City Directory Division | Image pg. A13 |
| 1992 | Hamps Lounge restr | R. L. Polk Co., Publishers | Image pg. A19 |
| | Bell Jessie | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Hamps Lounge restr | R. L. Polk Co., Publishers | Image pg. A24 |
| | Rear Cooperwood Hampton | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Hamps Lounge | R. L. Polk Co., Publishers | Image pg. A31 |
| | Cooperwood Hampton | R. L. Polk Co., Publishers | Image pg. A31 |
| | Rear Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Hamps Lounge restr | R. L. Polk Co. | Image pg. A37 |
| | Rear Stratford Roosevelt | R. L. Polk Co. | Image pg. A37 |
| 1970 | HAMPS LOUNGE RESTR | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Hams Lounge restr | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | rear Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A52 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Civic Sport Grill restr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Lighthouse Marine Co | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Civic Sport Grill restr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Civic Sport Grill | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Lippman David | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Protzmann Harry | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Norton Products Co drug mfrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Miayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Dilling Rosco A auto pntr rear | Polk-Clement Directory Co., Publishers | Image pg. A170 |

**1159 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant 4 Hses | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Banks Ted Auto Service | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Banks Auto Training Center | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Kar Motor Rebuilders Inc Br auto | R. L. Polk Co. | Image pg. A37 |
| 1970 | KAR MOTOR REBUILDERS INC AUTO REPR | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Kar Motor Rebuilders Inc auto repr | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Kar Motor Rebuilders Inc auto repr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Kar Motor Rebuilders Inc auto repr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Kar Motors Inc auto dlrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Kar Bake Corp auto repro | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Kar Bake Corp auto reprs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Lyth Chevrolet Inc autos | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Lyth Chevrolet inc autos | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Ferguson Lyth Inc autos | Polk-Clement Directory Co. Inc., | Image pg. A104 |

## Jefferson Ave

**1160 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2014 | BLACK EMPWERMENT THE PEOPLES | EDR Digital Archive |
| | BLACK EMPWERMENT THE PEOPLES | EDR Digital Archive |
| 2010 | BLACK EMPWERMENT THE PEOPLES | EDR Digital Archive |
| | ALL-N-ONES | EDR Digital Archive |
| | ALL-N-ONES | EDR Digital Archive |
| | BLACK EMPWERMENT THE PEOPLES | EDR Digital Archive |

# FINDINGS

## JEFFERSON AVE

### 1160 JEFFERSON AVE

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Brown Aireal L | Polk City Directories | Image pg. A2 |
| 2001 | Nassar Kaid K | EQUIFAX Polk City Directory | Image pg. A8 |
| | Nassar Zainab A | EQUIFAX Polk City Directory | Image pg. A8 |
| 1985 | Willert Park Radio & Television | R. L. Polk Co., Publishers | Image pg. A24 |
| | Weaver Helen | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Willert Park Radio & Television | R. L. Polk Co., Publishers | Image pg. A31 |
| | Thrist Mark A | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Willert Park Radio & Television Inc | R. L. Polk Co. | Image pg. A37 |
| | RearQueen Carol | R. L. Polk Co. | Image pg. A37 |
| | Weaver Helen Mrs | R. L. Polk Co. | Image pg. A37 |
| 1970 | WILLERT PARK RADIO & TELEVISION | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | HURD JAMES | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | WYATT SADIE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Willert Park Radio TV repair | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Harvey Frank B | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | rear Booker Arth W | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Schmucks Delicatessen | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Schmueks Ardiene R Mgrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | rear Clamp Joyce A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Schmuck Jos F confr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | rear Sternberg Phillip W | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Schmuck Jos F confr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Klein John M | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Henrich Elsie Mrs confr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Klein John M | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Henrich Elsie Mrs confr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | George Albert A restr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Vacant store | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Nevills Ashton A | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Rexin Chas | Polk-Clement Directory Co. Inc., | Image pg. A104 |

### 1162 JEFFERSON AVE

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Arts Motorcycle Delivery Serv | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Diannas Restr | R. L. Polk Co., Inc., Publishers | Image pg. A52 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Diannas Restr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Bettys Restr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Legg Gladys womens clo | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Bongiva Jos real est | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Bongiva Construction Co | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Manuei John barber | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Hennion John B fish | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Hennion John fish | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | HOYT Foster R firemn h | Polk-Clement Directory Co., Publishers | Image pg. A171 |

**1163 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | MAYERS & BUCHNER BATTERIES | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Mayers & Buchner batteries | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Mayers & Buchncr batteries | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc. | Image pg. A96 |

**1164 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | William Shoe Shine Parlor | R. L. Polk Co., Publishers | Image pg. A31 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | CASTLEBERRY EDDIE L | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | DORTHY ALFREDORA | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Arts Lounge restr | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Bair James T | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Kudlas Lounge restr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Arts Lounge restr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Wirchlac Anthony J | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Kudlers Lounge restr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Kudler Wm S | Polk-Clement Directory Co. Inc., | Image pg. A66 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Bair Jas F | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Walters Warren P restr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Bair Jas F | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Sampognaro Jos D | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Bair Jas F | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Vacant store | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Mayback Ida Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Arcara Chas shoe repr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Tabone Louis | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Arcara Chas J 0 shoe reur | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Ehlers Fred J | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Arcara Chas J shoe repr | Polk-Clement Directory Co., Publishers | Image pg. A172 |

**1165 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1998 | BIG BOYS TOYS pnt & body rpr | The Polk Company,City Directory Division | Image pg. A13 |
| 1975 | Banks Automotive Service Center | R. L. Polk Co. | Image pg. A37 |
| | auto repr | R. L. Polk Co. | Image pg. A37 |
| 1964 | Mayers & Buchner batteries | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Mayers & Buchncr batteries | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Mayers & Buchner batteries | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Brooke Oliver L | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Federal Motor Truck Sales | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Service Co | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1166 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | TOBOLA FRANK | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Broadway Taxicab Co Inc | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Sams Furn & Appls | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Seiler Sylvester J elec appliances | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Tobola Frank | Polk-Clement Directory Co. Inc., | Image pg. A66 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Voytek Jos | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Gilroy Bernard D | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Gilroy Bernard D | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Lymans Jos | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Sciler Sylvester J elec appliances | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Voytek Jos | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Gilroy Bernard D | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Lyman Jos | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Seiler Sylvester J elec appliances | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Thom Ray | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Roehner Aloysius H plmbr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Helbringer Hollis E | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Hoffman Wilbur | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Cargill & Sahr funeral directors | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Cargill Harry | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Romanowsky Stephanie Mrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Mac Kane Wm C whol confr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Cameron Lester M | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Reaner Martha Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | John B ship clk h rear | Polk-Clement Directory Co., Publishers | Image pg. A173 |
| | Rivers Harold r | Polk-Clement Directory Co., Publishers | Image pg. A173 |

**1168 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | STADIUM CUE CLUB BILLIARDS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Broadway Taxicab Co Inc | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Ausberry Furn | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Tabolo Frank | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Booker Leonard A | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | McAntosh Claud | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Sams Furn & Appls | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Tobola Frank | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Voytek Jos L | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Artcraft Paper Box Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Denler Raymond G sht mtl wkrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Denler Raymond G sht mtl wkrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1935 | Old Saratoga Inc whol liquors | Polk-Clement Directory Co. Inc. | Image pg. A96 |

# FINDINGS

**1170 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant 4 Hses | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Stadium Cue Billiard | R. L. Polk Co., Publishers | Image pg. A31 |
| 1950 | Denler Raymond G sht mtl wkrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Denler Raymond G Co sht mtl wkrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Lyth Chevrolet service dept | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Old Saratoga Inc whol liquors | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Grun D Walter WV bida contr | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1179 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Chip Steak Co of Bflo | R. L. Polk Co., Inc., Publishers | Image pg. A52 |

**1181 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Lady Hart Chapter No 20 | R. L. Polk Co., Publishers | Image pg. A19 |
| | House of David Lodge 93 masonic lodge | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Chip Steaks | R. L. Polk Co., Publishers | Image pg. A31 |
| 1970 | CHIP STEAK CO OF BUFFALO FOOD | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1960 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Chip Steak Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |

**1182 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Anderson Veteran Mrs | R. L. Polk Co. | Image pg. A37 |
| | Morleys Washer Parts Co | R. L. Polk Co. | Image pg. A37 |
| | Morleys Photo Offset Copy Service | R. L. Polk Co. | Image pg. A37 |
| 1970 | MORLEYS WASHER PARTS CO | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | MORLEYS PHOTO OFFSET COPY SERVICE | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Morleys Photo Offset Copy Serv | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Morleys Washer Parts Co | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Morleys Washer Parts Co washing machs repr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Morleys Washer Parts Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Morley Harold E | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Morley Harold E vacuum clnrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Kirsch Anthony | Polk-Clement Directory Co. Inc., | Image pg. A82 |

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Morley Harold E vacuum clnrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Morley Harold V vacuum clnrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Helper Jos | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Kirsch Anthony | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vacant store | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Kirsch Anthony | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Geddes Fred pntr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Glasgow John | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Dietrich Aua dry ads | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Roach Wm | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1183 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Chip Steak Co of Bflo | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1950 | Four Hour Cleaners Laundry Inc br | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Four Hour Cleaners | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Lyth Chevrolet Inc used car dept | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Lyth Chevrolet Inc display room | Polk-Clement Directory Co. Inc. | Image pg. A96 |

## Jefferson Ave

**1184 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2010 | NITRO AUTOMOTIVE | EDR Digital Archive |
| | NITRO AUTOMOTIVE | EDR Digital Archive |

## JEFFERSON AVE

**1184 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Matthews Kenneth | EQUIFAX Polk City Directory | Image pg. A8 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Smith John H Insurance & Realty | R. L. Polk Co., Publishers | Image pg. A24 |
| | Fletcher Solomon | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Smith John H Realty Co | R. L. Polk Co., Publishers | Image pg. A31 |
| | Seventh District Democratic Club | R. L. Polk Co., Publishers | Image pg. A31 |
| | White John L | R. L. Polk Co., Publishers | Image pg. A31 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Smith John H Realty Co | R. L. Polk Co. | Image pg. A37 |
| | Vacant | R. L. Polk Co. | Image pg. A37 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | SMITH JOHN H REALTY CO | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | ADAMS ANDREW J | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | MANDILAS ANNA | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Smith John H Realty Co | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Martino Albert | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Martino Albert shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Robinson Mildred A | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Martino Albert shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Robinson Mildred Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Piracci Frank | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Martino Albert shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | D & D Amplifier & Radio Repair | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Calback Robt J | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Arcara Chas shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Marciello Mauro gro | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | A B C Products Co soft drinks | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Schieber Frank X | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Hatch Kath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | FLYNN David J carrier PO h | Polk-Clement Directory Co., Publishers | Image pg. A174 |
| | Hatch Bros Mrs Cath A and Jas J Hatch undtrks | Polk-Clement Directory Co., Publishers | Image pg. A175 |

## Jefferson Ave

**1185 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2014 | SAINT ANTHONYS SPIRITUAL CH | EDR Digital Archive |
| | SAINT ANTHONYS SPIRITUAL CH | EDR Digital Archive |
| 2010 | SAINT ANTHONYS SPIRITUAL CH | EDR Digital Archive |
| | SAINT ANTHONYS SPIRITUAL CH | EDR Digital Archive |

## JEFFERSON AVE

**1185 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | churches | Polk City Directories | Image pg. A2 |
| | ST ANTHONYS SPIRITUAL CHR | Polk City Directories | Image pg. A2 |
| 2001 | ST ANTHONYS SPIRITUAL CHURCH | EQUIFAX Polk City Directory | Image pg. A8 |
| | ST ANTHONYS SPIRITUAL CHURCH ch temples shrines | EQUIFAX Polk City Directory | Image pg. A8 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | St James Missionary Baptist Church | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | St James Missionary Baptist Church | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | St James Missionary Baptist | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Comm Missionary Baptist | R. L. Polk Co. | Image pg. A37 |
| 1970 | MEMORIAL BAPTIST CHURCH | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | G D A Inc gro | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Econoline Foods Inc gro whol | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Bartows One Hour | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Martinizing dry cln | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Four Hour Cleaners Laundry Inc | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Four Hour Cleaners Laundry Inc | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Four Hour Dry Clnrs plant | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Four Hour Dry Clnrs br | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Bison Trimming Co | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1187 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Hall Serv Sta gas sta | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Frontier Fuel Oil Corp br | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Frontier Fuel Oil Corp br | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Frontier Fuel Oil Corp br | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Walters Jas filling sta | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | THEOBALD Wm C hdw | Polk-Clement Directory Co., Publishers | Image pg. A176 |

**1188 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | DU DROP SUPER MARKET | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Peters Furn Co | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Maiolo Russell meats Lewis Shirley | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Powacek Benj | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | meats whol | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Jefferson Provision Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Steck Norman | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Heister Bernard meats | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Dapp Chester L | Polk-Clement Directory Co. Inc., | Image pg. A82 |

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Schusterbauer Frank R wall paper | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Schusterbauer Frank R wall paper | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Schusterbauer Frank R wall | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | naoer | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Schusterbauer Frank R wall paper | Polk-Clement Directory Co., Publishers | Image pg. A177 |

**1189 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1192 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1964 | Lous Du Drop Super Mkt | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Du Drop Super Mkt gro | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Sams Furn & Appl | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Attea Ernest P paints | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Attea Ernest P paints | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Ken S Auto Painting | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vacant store | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Haas Edw fruits | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Riley Francis J gro | Polk-Clement Directory Co., Publishers | Image pg. A178 |

## Jefferson Ave

**1193 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2010 | HOPKINS INSURANCE | EDR Digital Archive |
| | HOPKINS INSURANCE | EDR Digital Archive |

## JEFFERSON AVE

**1193 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | 1193 97 Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1195 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | STADIUM SERVICE STATION | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Shepard Sidney E gas sta | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Shepard Sidney E gas sta | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Shepard Sidney E filling sta | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Shepard Sidney E filling sta | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Shepard Sidney E filling sta | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Shepard Sidney E filling sta | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Socony Vacuum Oil Co br filling sta | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1925 | MYERS Darwin E undtkr | Polk-Clement Directory Co., Publishers | Image pg. A179 |

**1197 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | 1193 97 Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1198 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | ANGELICA HEALTHCARE clinic | EQUIFAX Polk City Directory | Image pg. A8 |
| 1998 | linen supply | The Polk Company,City Directory Division | Image pg. A13 |
| | ANGELICA TEXTILE SERVICES | The Polk Company,City Directory Division | Image pg. A13 |
| 1992 | Buffalo Institutional Service | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Pendrick Laundry Inc | R. L. Polk Co., Publishers | Image pg. A24 |
| | Buffalo Institutional Service laundry | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Al Jo Cleaners diaper serv | R. L. Polk Co., Publishers | Image pg. A31 |
| | Pendrick Laundry Inc | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Tidy Didy Service diaper serv | R. L. Polk Co. | Image pg. A37 |
| | Pendrick Laundry Inc | R. L. Polk Co. | Image pg. A37 |
| 1970 | PENDRICK LAUNDRY INC | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Pendrick Laundry Inc | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Pendrick Laundry Inc | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Pendrick Laundry Inc | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Pendrick Laundry Inc plant | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Pendrick Laundry Inc plant | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Weiss Gustaph A gro and meats | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Weiss Gustaph A meats | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Weiss Gustav A meats | Polk-Clement Directory Co. Inc., | Image pg. A104 |

# FINDINGS

**1199 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Bishop Frank E | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | America Inc garage | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Pacific Outo Service of | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | ENGLISH R Carlton sewing machines | Polk-Clement Directory Co., Publishers | Image pg. A180 |

**1201 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Duggan Margt Mrs restr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Duggan Margt restr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Keller Rudolph J fruits | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | MILLER & Michael Jacob Miller Henry Michael garage | Polk-Clement Directory Co., Publishers | Image pg. A181 |

## Jefferson Ave

**1202 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2014 | SMART RIDE LTD | EDR Digital Archive |
| | F F G ENTERPRISES LTD | EDR Digital Archive |
| | SMART RIDE LTD | EDR Digital Archive |
| | F F G ENTERPRISES LTD | EDR Digital Archive |
| 2010 | F F G ENTERPRISES LTD | EDR Digital Archive |
| | SPOTLESS ONE CLEANING CO INC | EDR Digital Archive |
| | SMART RIDE LTD | EDR Digital Archive |
| | SPOTLESS ONE CLEANING CO INC | EDR Digital Archive |
| | SMART RIDE LTD | EDR Digital Archive |
| | F F G ENTERPRISES LTD | EDR Digital Archive |

## JEFFERSON AVE

**1202 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | FFG ENTERPRISE LTD parking | Polk City Directories | Image pg. A2 |
| | stations & garages | Polk City Directories | Image pg. A2 |
| 1950 | Pendrick Laundry Inc | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Pendrick Laundry Inc | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Pendrick Laundry Inc | Polk-Clement Directory Co. Inc., | Image pg. A89 |

# FINDINGS

**1203 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Rays Construction constn contr | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Hadji Temple No | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | JEFFERSON EDUCATION CENTER | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Arro Lock Roofing & Aluminum Mfg Div of Abram Inc | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Arro Lock Roofing & Aluminum Mfg | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Arro Lock Roofing Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Arro Lock Roofing Co | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Arro Lock Roofing Co | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Aerated Products Co dairy | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Hemmer John N meats | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1204 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Landsheft Henry J auto body mfr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | 1200 04 Landsheft Henry auto pntr | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1205 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Meyer Harold G plmbr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Radio Kraft Co Richd Campbell mgr | Polk-Clement Directory Co., Publishers | Image pg. A182 |

**1209 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Arro Lock Roofing & Aluminum Mfg Div of Abram Inc | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Arro Lock Roofing & Aluminum Mfg | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Arro Lock Roofing Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Arro Lock Roofing Co | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Arro Lock Roofing Co | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Bechts Sheet Metal Works | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Becht Jos J sheet metal wks | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Simon Phili D garage | Polk-Clement Directory Co. Inc., | Image pg. A104 |

# FINDINGS

**1210 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Reliable Furniture Works | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Radtke Henry | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Reliable Furniture Works | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Radtke Henry F furn repr | Polk-Clement Directory Co., Publishers | Image pg. A183 |

**1212 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Buffalo Amusement & Vending Co | R. L. Polk Co., Publishers | Image pg. A24 |
| | sls & serv | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Buffalo Amusement & Vending Co | R. L. Polk Co., Publishers | Image pg. A31 |
| | als & serv | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Buffalo Amusements vending mach | R. L. Polk Co. | Image pg. A37 |
| | & sen | R. L. Polk Co. | Image pg. A37 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Tubin Harry stge | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Coon L J Heating | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Acme Plate Glass Co | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Amthor Glass & Mirror Co br | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Barry E J & Co whse | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Barry E J & Co whse | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | 1212 14 Barry E J & Co whse | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Beier Wm H storage whse | Polk-Clement Directory Co., Publishers | Image pg. A184 |

**1213 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | St Johns Lodge No 16 | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Frontier Exterminators | R. L. Polk Co. | Image pg. A37 |
| | Frontier Products janitorial sups | R. L. Polk Co. | Image pg. A37 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Fowlers Chocolate Shoppe | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Fowlers Chocolate Shoppe | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Fowlers Chocolate Shoppe | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Fowler Mildred A Mrs candymkr | Polk-Clement Directory Co. Inc., | Image pg. A75 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Chamberg Geo Z barber | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Chamberg Geo barber | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Lambertus Fred barber | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1214 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Barry E J & Co whse | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | 1212 14 Barry E J & Co whse | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1215 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Fowlers Chocolate Shoppe | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Fowlers Chocolate Shoppe | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1946 | Fowler Mildred A Mrs candymkr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Fowler Jos A candymkr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Fowler Jos A confr mfrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Harman Herbert | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Fowler Jos A confr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Schrader Frank | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Miecca Andrew P | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1216 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Turquoise Diner | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Kirkland Diner | R. L. Polk Co. | Image pg. A37 |
| 1970 | TURQUOISE DINER RESTR | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Turquoise Diner | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Brochmans Restr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Brochman Walter | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Brockmans Restr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Brockman Walter | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Brockman Mary Mrs restr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Brockman Walter | Polk-Clement Directory Co. Inc., | Image pg. A75 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Brockman Mary restr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Bates Geraldine C | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Brothman Mary Mrs restr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Carey Jos A | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Tran D & Bingeman soft drinks | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Litchner Albert F | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | V 2 Jefferson Extract Co | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | h | Polk-Clement Directory Co., Publishers | Image pg. A185 |
| | Cadara Victor I fruits | Polk-Clement Directory Co., Publishers | Image pg. A185 |
| | Mc & Kyle John Mc Donald Wm J Kyle gro | Polk-Clement Directory Co., Publishers | Image pg. A186 |
| | MILLER Cath r rear | Polk-Clement Directory Co., Publishers | Image pg. A187 |
| | MILLER Chas F slsmn r rear | Polk-Clement Directory Co., Publishers | Image pg. A187 |
| | MILLER Geo h rear | Polk-Clement Directory Co., Publishers | Image pg. A188 |

**1217 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | EL BETHEL REVIVAL CENTER VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | El Bethel Church Light of the World Missions | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| | Biggs Edw | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Shady Leaf Food Market gros | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Springbom | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Williams Bruce | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Shady Leaf Food Market gros | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Bauman Franklin C | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Hahn Walter C | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Shady Leaf Food Market gros | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Shady Leaf Food Market gros | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Amos Ernest R | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Pirrello Camillo shoe repr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Labelle Edgar | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Bunnell Elmer ctr r rear | Polk-Clement Directory Co., Publishers | Image pg. A189 |
| | Bunnell Marion A mach h rear | Polk-Clement Directory Co., Publishers | Image pg. A189 |
| | Bunnell Maud Mrs mach opr r rear | Polk-Clement Directory Co., Publishers | Image pg. A189 |

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Meyer Chas carp r | Polk-Clement Directory Co., Publishers | Image pg. A190 |
| | MEYER Theo chauf r | Polk-Clement Directory Co., Publishers | Image pg. A191 |

**1218 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | CLUB 1218 social club | EQUIFAX Polk City Directory | Image pg. A8 |
| 1998 | CLUB 1218 drinking places | The Polk Company,City Directory Division | Image pg. A13 |
| 1992 | Club Twelve Eighteen tavern | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Club Twelve Eighteen tavern | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Club Twelve Eighteen tavern | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Club Twelve Eighteen tavern | R. L. Polk Co. | Image pg. A37 |
| 1970 | GENERAL CATERING SERVICE INC | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1960 | Stadium Post No 1368 VFW | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Stadium Post No 1369 VFW | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Stadium Post No 1369 VFW | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1940 | Alff Jos tailor | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | McNaughton Patricia M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Alff Jos tailor | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Aiff Jose tailor | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Galley Bernard J | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Robson Hannah wid Geo r rear | Polk-Clement Directory Co., Publishers | Image pg. A193 |
| | Aiff Herbert G tailor r | Polk-Clement Directory Co., Publishers | Image pg. A192 |
| | Alfes Jos tailor | Polk-Clement Directory Co., Publishers | Image pg. A192 |

**1220 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A52 |
| 1955 | No return | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Cascio Saml barber | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Cascio Saml barber | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Rosanske Wm barber | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Rosanske Wm barber | Polk-Clement Directory Co. Inc. | Image pg. A96 |

**1223 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Grants Jimmy Chocolate Shoppe | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Swan Cleaners Inc | Polk-Clement Directory Co. Inc., | Image pg. A75 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Swan Cleaners Inc | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Lilly Restaurant | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Wohrle Chas F drugs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Wohrle Chas F C drugs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Aiken Louis | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Engeland Danl driver h | Polk-Clement Directory Co., Publishers | Image pg. A194 |
| | Pritchard Anna Eug clk r | Polk-Clement Directory Co., Publishers | Image pg. A195 |
| | Irving lab h | Polk-Clement Directory Co., Publishers | Image pg. A195 |

**1224 JEFFERSON AVE**

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| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Hadlev Geo N wall Daner | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1225 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | CARVER DRUGS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | CLYBURN BETTY MRS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Carver Drugs | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Bull Chas D phys | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Champion Oliver J phys | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Carver Drugs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Peterson Lawrence R | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Vogt Louise A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Metzger Anton | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Grant Jas T | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Peterson Lawrence R | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Vogt Louise A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Metzger Anton | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Peterson Lawrence | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Grant Jas T | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Vogt Louise A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Peterson Lawrence | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Vogt Louise Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Lorna Grants Chocolate Shoppe | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Metzger Anton | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Krieger Effie L Mrs contr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Krieger Edw J | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Kuhlmey Otto J | Polk-Clement Directory Co. Inc., | Image pg. A89 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Vogt Louise Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Ales Elmer | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Hansman Chester S printer | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Ugard Ruth Mrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Warren Geo F | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Freeman Fred | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Byram Ulysses S | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Winkler F X Co radio su Dulies | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Aiken Lewis | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Eldridge Mae B Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Delaware Robt J cond h | Polk-Clement Directory Co., Publishers | Image pg. A196 |
| | Masters Carl pntr r | Polk-Clement Directory Co., Publishers | Image pg. A197 |
| | Masters John pntr h | Polk-Clement Directory Co., Publishers | Image pg. A197 |
| | Terbrack | Polk-Clement Directory Co., Publishers | Image pg. A198 |

**1226 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Bingeman Albert clk Fred George r | Polk-Clement Directory Co., Publishers | Image pg. A199 |

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**1227 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | PAGE BARBER SHOP | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | PAGE HARVEY | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Relation Barber Shop | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1950 | Aunt Ettas Cookie Shop | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1940 | Hansman Chester S printer | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Mager Engelbert tailor | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1228 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Gem Gems Soul City restr | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Gem Gems Soul City restr | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Gem Gems Soul City restr | R. L. Polk Co. | Image pg. A37 |
| 1970 | CROWS NEST YE OLDE TAVERN | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | BOETTCHER HAZEL MRS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Crows Nest Tavern | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Hawkins Walter | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Boettcher Hazel Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A56 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Boettcher Hazel Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Old Crowns Nest The restr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Werling Elmer J | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Boettcher Hazel Mrs restr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Werlin Elmer J | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Werlin Elmer J | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Boettcher Wm F | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Boettcher Hazel Mrs restr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Werlin Elmer J | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Boettcher Hazel Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Boettcher Wm F restr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Brennan Edw J restr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Humig Louis | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Kaelin Elsie Mrs restr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Holmes Chas E gro | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Heelev Howard P | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Mead Mary charwmn r | Polk-Clement Directory Co., Publishers | Image pg. A200 |

**1229 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | United House Of Prayer | R. L. Polk Co. | Image pg. A37 |
| | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | NO RETURN | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | NO RETURN | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Wilson Charlie | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Dunston Odella Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | rear Wilson Walter | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Schindler Madelaine M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Cunningham Wilbert F | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Glad Tidings Chapel | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Beach Edith L | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Fink Carl E | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Cunningham Wilbert F | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Pringle Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Schultz Edw G | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Tschopp Leo A dry clnr supplies | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Gorankoff Nathan | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Tschopp Leo A clo clnr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Graf Wm C | Polk-Clement Directory Co. Inc., | Image pg. A82 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Pauls Pie Shop | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Kennedy Chas gift shop | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Mercer Walter | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Lorraine Thos M lgift shon | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Anderson Helen | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Lorraine Thos M confr | Polk-Clement Directory Co., Publishers | Image pg. A202 |
| | Kiehl Eliz M grad nurse r | Polk-Clement Directory Co., Publishers | Image pg. A201 |
| | Kiehl Harlow lithog r | Polk-Clement Directory Co., Publishers | Image pg. A201 |

**1230 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | CROWS NEST BARBECUE RESTR | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1955 | Als Shoe Shine Parlor | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Camera Home & Appl Store | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Koch Lorraine sign pntr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Humig Louis baker | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Mayer Caroline baker | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Maaer Engelbert tailor | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1232 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A96 |

**1233 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Aughtry Hettie R | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | AUGHTRY HETTIE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | HILL IDA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | HERNDON ANNIE B | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | GARNER CLIFFORD | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Jefferson Press Inc | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Hill Ida Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Robinson Ethel | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Swingler Dorothy | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Jefferson Press Inc | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Henke Jas R | Polk-Clement Directory Co. Inc., | Image pg. A66 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Sargente Frank | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Class Violet M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | McCarthy Robt P | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Jefferson Press Inc | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Jefferson Press Inc | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Ruhland Franklin | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Brooks Vaughn | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Sehapiro Melvin | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Furbeck Jas | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Sultz Irving uphol | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Ross Jos A | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Bogom David S | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Furbeck Jas | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Sultz Irving | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Larkins Saml B | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Great A & P Tea Co gros | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Wohrle Chas F | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | rear Ashberry Wallace H | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Ashburv Wallace UH | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Wohrle Chas F | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Gt A & P Tea Co | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1234 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Kwaczala Chas J | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Fraser Kath Mrs | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Melzer I Co Inc br radio | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Puff Edw | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Flickingers Inc br | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Grundner Mary wid John h | Polk-Clement Directory Co., Publishers | Image pg. A203 |

**1235 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | New Continental Beef Sub Restr | R. L. Polk Co., Publishers | Image pg. A31 |
| 1970 | CONTINENTAL BARBER SHOP | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Continental Barber Shop | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Hugger Lena Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Tate Geo | Polk-Clement Directory Co. Inc., | Image pg. A60 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Chamberg Geo barber | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Gebhard Leo | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Lebert Kenneth Kaney Bernard elec appl | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Chamberg Geo barber | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Gebhard Leo | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Central Radio & Television Service | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Lebert Kenneth | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Joslyn Christopher J | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Chamberg Geo barber | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Gebhard Geo gift shop | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Clohessy Edw J | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Quinn Thos J | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Trogden Thos T | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Fritz Wm G confr | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| | Fink Henry A | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Hohl Herbert L confr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Mansel Wm | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Olive Kenneth H candymkr h | Polk-Clement Directory Co., Publishers | Image pg. A204 |
| | Olive Marjorie M bkpr r | Polk-Clement Directory Co., Publishers | Image pg. A204 |

**1236 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Norbans Self Serv Dept Store | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Norban Dress Shops br | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Loblaw Groceterias Inc br gros | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Martino Albert shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Martino Albert shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Hosterman Home Bakery | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1238 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Christian Movie Outreach church | R. L. Polk Co., Publishers | Image pg. A24 |
| 1940 | Oilvers Dept Store | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Oliver A & Son dry gds | Polk-Clement Directory Co. Inc. | Image pg. A96 |
| 1930 | Olivers Dent Store | Polk-Clement Directory Co. Inc., | Image pg. A104 |

# FINDINGS

## Jefferson Ave

**1239 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2010 | BUFFALO MODEL NEIGHBRHD WATU | EDR Digital Archive |
| | BUFFALO MODEL NEIGHBRHD WATU | EDR Digital Archive |

## JEFFERSON AVE

**1239 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1998 | MOST WORSHIPFUL UNIVERSIAL | The Polk Company,City Directory Division | Image pg. A13 |
| | GRAND LODGE civic social assns | The Polk Company,City Directory Division | Image pg. A13 |
| 1992 | Mount Carmel Grand Lodge | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Mount Carmel Grand Lodge | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Mount Carmnel Grand Lodge | R. L. Polk Co., Publishers | Image pg. A31 |
| 1970 | MODERN FURNITURE HOUSE INC | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Modern Furn Hse | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Kayser Furn Co | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Kayser Furniture Co The | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | 1239 43 Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1240 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Norbans Self Serv Dept Store | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Apartments | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Miller John | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Wheeler John | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Fewings Anna R Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Moran Della | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Sullivan Genevieve M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Weber John B | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Kloss Rose L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Goldsmith Mary E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Laesseer Ralph J | Polk-Clement Directory Co. Inc., | Image pg. A60 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Liebermann Leo N | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Miller John | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Norban Dress Shops br | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Apartments | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Osborn Ada Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Tosh Mary R Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Fewings Wm T | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Taylor Oren R | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Glass Henry S | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Sullivan Genevieve M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Burt Margt Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Weber John B | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Laesser Ralph J | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Goldsmith Mary C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Joerns Emma Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Fencil Dolores | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Loblaw Groceterias Inc br gros | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Apartments | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Osborn Ada Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Fosh Mary R Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Fewings Wm T plstr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Taylor Oren R | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Glass Henry S | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Sullivan Genevieve M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Burt Margt Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Hens Albert J | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Joerns Emma Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Brown John H | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Rowends Eliz L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Goldsmith Mary C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Loblaw Groceterias Inc br gros | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Apartments | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Osnorn Ada Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Heiser Chas H | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Fewings Wm T plstr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Taylor Oren R | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Glass Henry S | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Sullivan Genevieve M | Polk-Clement Directory Co. Inc., | Image pg. A82 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Burt John J | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Hens Albert J | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Rowends Eliz L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Goldsmith Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Joerns John A | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Tosh Mary R Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Apartments | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Koepp Peter | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Heiser Chas H | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Fewings Wm T plstr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Wadovich Rudolph | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Daly John M | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Mueller Frank X | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Burt John J | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Nowinski Nicholas | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Rowends Bessie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Goldsmith Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Joerns John A | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Foran Mary F Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Apartments | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Heiser Chas H | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Fewings Wm T plstr contr | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Denzinger Bertha | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Peterson Alma Mrs | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Oelheim Louisa Mrs | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Burt John J | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Hynes Albert | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Feldman Albert | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Owens Owen | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Straub Walter E | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | Apartments | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Thoma Anna Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Manhardt Mary Mrs nurse | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Fewings Wm F | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Ottawav Wm V | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Straoarn Chas C | Polk-Clement Directory Co. Inc., | Image pg. A104 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Baier Geo ir orthopedic | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | anuliances | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Begin Cath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Graves Margt H Mrs nurse | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Swender Andrew | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Landsittle Barbara | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Cegal Nancy Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Adams Wm | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Street continued | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | BAIER Geo jr orthopaedic appliances | Polk-Clement Directory Co., Publishers | Image pg. A205 |
| | Barbarit Wm W clk h | Polk-Clement Directory Co., Publishers | Image pg. A206 |
| | Begin Edw brkmn r | Polk-Clement Directory Co., Publishers | Image pg. A207 |
| | Kohlhas Amelia wid John h | Polk-Clement Directory Co., Publishers | Image pg. A208 |
| | Paya Frank J eng h | Polk-Clement Directory Co., Publishers | Image pg. A209 |
| | Sayles Bert carp h | Polk-Clement Directory Co., Publishers | Image pg. A210 |
| | Schoenle Earl A mach h | Polk-Clement Directory Co., Publishers | Image pg. A211 |
| | Zaepfel John h | Polk-Clement Directory Co., Publishers | Image pg. A212 |

**1241 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Continental Barber Shop | Polk-Clement Directory Co. Inc., | Image pg. A60 |

## Jefferson Ave

**1242 Jefferson Ave**

| Year | Uses | Source |
|---|---|---|
| 2014 | E B ROBERSON COMMUNITY DEV | EDR Digital Archive |
| | E B ROBERSON COMMUNITY DEV | EDR Digital Archive |
| 2010 | E B ROBERSON COMMUNITY DEV | EDR Digital Archive |
| | E B ROBERSON COMMUNITY DEV | EDR Digital Archive |

## JEFFERSON AVE

**1242 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | ABUNDANT LIFE COGIC churches | Polk City Directories | Image pg. A2 |
| 2001 | ABUNDANT LIFE CHURCH OF GOD IN CHRIST | EQUIFAX Polk City Directory | Image pg. A8 |
| 1998 | SHILOH PENTACOSTAL TEMPLE | The Polk Company,City Directory Division | Image pg. A13 |
| | religious orgs | The Polk Company,City Directory Division | Image pg. A13 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Free Spirit Missionary Baptist Church | R. L. Polk Co., Publishers | Image pg. A19 |
| | Sutton Al B Jr Rev | R. L. Polk Co., Publishers | Image pg. A19 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | B Kwik Food Market Br | R. L. Polk Co. | Image pg. A37 |
| 1940 | Oilvers Dept Store | Polk-Clement Directory Co. Inc., | Image pg. A89 |

**1243 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Modern Furn Hse | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Kayser Furn Co | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Kayser Hildegard Mrs | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Kayser Ralph W | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Kayser Furniture Co The | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | 1239 43 Kayser Furniture Co | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1244 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Hill Thelma | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | New Economy Fish and Poultry Mkt | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Stevens Prince E Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | rear Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Narita Beauty Shoppe | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Bulba Andres | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Wilson Agnes D Mrs beauty shop | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Springer Herman F variety store | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Sanscnia Cath | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Whatley Wm | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Crowe Rachel E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Wilson Agnes D Mrs beauty shop | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Talboys Clara I Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Snyder Lester W | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Camb Ida Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Springer Herman F novelties | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Wilson Agnes D beauty shop | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Talboys Clara D | Polk-Clement Directory Co. Inc., | Image pg. A82 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Elsie Arth gift shop | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Halt Albert | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Marita Beauty Shop | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Richter Edw E | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Hanover Wm T | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Speed Cath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Rother Fredk G barber | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Rother Fredk G barber | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Broten Peter | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Speed Willard H | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | Fox Helen | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | MAuhr Victor | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Hiller Hattie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Bischof Henry E dentist | Polk-Clement Directory Co., Publishers | Image pg. A213 |
| | Roetzer Edw elev opr Trico Products Corp h rear | Polk-Clement Directory Co., Publishers | Image pg. A214 |

**1245 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Jans Delicatessen & Variety Stop | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Karate School | R. L. Polk Co., Publishers | Image pg. A24 |
| 1970 | BAILEYS USED T V SALES & SERVICE | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Baileys Used TV Sls & Serv | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Rolf Arth A | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Rolf Adolph R pet shop | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Rolf Adolph R pet shop | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Rolf Adolph R pet shop | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Kasparbak Edw | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Rolf Adolph R pets | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Kasprzak Edw | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Atkins Mona Mrs confr | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Atkins Mildred H mus tchr | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | Atkins Mildred H mus tchr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Atkins Mona Mrs confr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Atkins Maurice A chauf r | Polk-Clement Directory Co., Publishers | Image pg. A215 |
| | Atkins Mona wid Geo confr | Polk-Clement Directory Co., Publishers | Image pg. A215 |
| | Atkins Mona E elk Mrs Mmjna Atkins r | Polk-Clement Directory Co., Publishers | Image pg. A215 |

# FINDINGS

**1246 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| | Thru State Realty | R. L. Polk Co., Publishers | Image pg. A31 |
| | Allen Charles K | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Baileys New & Used Furniture | R. L. Polk Co. | Image pg. A37 |
| | Baileys Used T V Sales | R. L. Polk Co. | Image pg. A37 |
| | Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | ORIENTAL HOUSE OF BEAUTY | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | LaMae Beauty Salon | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | LaMaes Beauty Salon House of Style | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Kiesznoski Jos | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Turner Rufus | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Conroy John B sewing mach repr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Freitag Ida H Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Freitag Arth F dentist | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Freitag Arth F dentist | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Freitag Ida H Mrs | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | Freitag Ida H Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Freitag Henry dentist r | Polk-Clement Directory Co., Publishers | Image pg. A216 |
| | Freitag Ida N h | Polk-Clement Directory Co., Publishers | Image pg. A216 |

**1247 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1970 | BUBBLES SPOTTED CLIPPER BARBER SHOP | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | HOBSON JAMES | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | HOLT IRVING L | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Bubbles Spotted Clipper Barber Shop | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Millys Doll House of Beauty | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Trombley Arth W | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | White Barbara L | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Spotted Clipper Barber Shop | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Millys Doll House beauty shop | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Franklin Thos B | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Joyner Pancho M | Polk-Clement Directory Co. Inc., | Image pg. A60 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Ulrich Edw | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Yeostros Ice Cream Bar | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Santers Chas F confr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Full Geraldine E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Pulera Pasquale | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Choises John confr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Full Geraldine E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Pulera Pasquale | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Chioses John confr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Abt Severin C | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Full Henry H | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Orffeo Angelo taxidermist and barber | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Muffeletto Jos | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Muffeletto Angeline Mrs beauty shop | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Brumagim Freeman M whol delicatessen | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | Lee Winlz lndv | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Orffeo Angeline beauty shop | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Orffeo Angelo barber and taxidermist | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1249 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Central Radio & Television Sales & Service Inc | R. L. Polk Co., Publishers | Image pg. A19 |
| 1985 | Central Radio & Television Sales | R. L. Polk Co., Publishers | Image pg. A24 |
| | Service Inc | R. L. Polk Co., Publishers | Image pg. A24 |
| 1980 | Central Park Radio & Telev Sls | R. L. Polk Co., Publishers | Image pg. A31 |
| | Repr Serv Inc | R. L. Polk Co., Publishers | Image pg. A31 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A31 |
| 1975 | Central Radio & Television Sales | R. L. Polk Co. | Image pg. A37 |
| | Repr Serv Inc | R. L. Polk Co. | Image pg. A37 |
| | Wilson Lulu | R. L. Polk Co. | Image pg. A37 |
| 1970 | CENTRAL RADIO & TELEVISION SALES & REPR SERV INC | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | BRIGGS SAML | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Central Radio & Telev Sls & Serv Inc | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Briggs Saml | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Central Radio & TV sls & serv | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Bflo Television Service | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Central Radio & Telev sls and service | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Hirschman Oscar B | Polk-Clement Directory Co. Inc., | Image pg. A66 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | rear Fichtel Carl F | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Matthies Emil A tailor | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Hirshman Oscar B | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Thompson Walter G | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Matthies Emil A tailor | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Hirshman Oscar B | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Matthies Emil A tailor | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Swift Flora Mrs | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Brennan Edw J | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Matthies Emil A tailor | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | Billingsley Saml | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | Bischof Henry E dentist | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Gould Edwin R nhys | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Matthies Emil A tailor | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Kuhlman Celia Mrs | Polk-Clement Directory Co. Inc., | Image pg. A104 |

**1250 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Carlisle A | R. L. Polk Co. | Image pg. A37 |
| | Johnnys Barber Shop | R. L. Polk Co. | Image pg. A37 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Pinno Pizza Inc | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Smith Wiley E | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Smith Wallie E | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Gordon Provisions meats | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | Gordon Nathan meats | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Cosgrove Robt F | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Sackman Henry P | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Gordon Nathan meats | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Sackman Henry P | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Gordon Nathan meats | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Schaeffer Edgar A | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Smith Chas G | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Vanderbush Edw F restr | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | HofmeiSter Florence | Polk-Clement Directory Co. Inc. | Image pg. A99 |

**1251 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Oriental House Of Styles beauty | R. L. Polk Co. | Image pg. A37 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Rear Vacant | R. L. Polk Co. | Image pg. A37 |
| 1970 | ORIENTAL HOUSE OF STYLES | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| | JOHNSON OTIS | R.L. Polk Company, Inc., Publishers | Image pg. A44 |
| 1964 | Florida Fish Mkt | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| | Lillton James | R. L. Polk Co., Inc., Publishers | Image pg. A56 |
| 1960 | Clark Arthur | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| | Michaels Shoe Repr | Polk-Clement Directory Co. Inc., | Image pg. A60 |
| 1955 | rear Rice Geo | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| | Marinaccio Michl shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A66 |
| 1950 | Marinaccio Michl shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Schwartz Agnes Mrs | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| | Kasprzak Edw | Polk-Clement Directory Co. Inc., | Image pg. A75 |
| 1946 | Marinaccio Michl shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Schwartz Agnes Mrs | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| | Kasprzak Edw | Polk-Clement Directory Co. Inc., | Image pg. A82 |
| 1940 | Russ John J | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Schwartz John M | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| | Marinaccio Michl shoe repr | Polk-Clement Directory Co. Inc., | Image pg. A89 |
| 1935 | Marinaccio Michl shoe repr | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| | rear Geisen Lena Mrs | Polk-Clement Directory Co. Inc. | Image pg. A99 |
| 1930 | Larkums Bakery br | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Dietrich John mus tchr | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Radium Violet Ray Co | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| | Mary Martin J | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | MARY Martin J gro | Polk-Clement Directory Co., Publishers | Image pg. A217 |
| | RAYMOND Margt Mary elk M J Mary r | Polk-Clement Directory Co., Publishers | Image pg. A218 |

**1252 JEFFERSON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A104 |
| 1925 | Litchner Louise waitress r | Polk-Clement Directory Co., Publishers | Image pg. A219 |
| | Litchner Paul J waiter r | Polk-Clement Directory Co., Publishers | Image pg. A219 |
| | Litchner Wm lab r | Polk-Clement Directory Co., Publishers | Image pg. A219 |
| | Litchner Chas h | Polk-Clement Directory Co., Publishers | Image pg. A219 |
| | Litchner Albert slsmn r | Polk-Clement Directory Co., Publishers | Image pg. A219 |

# FINDINGS

## JEFFERSON ST

### 1132 JEFFERSON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Vandecamp John crane opr h rear | Polk-Clement Directory Co., Publishers | Image pg. A220 |

### 1140 JEFFERSON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Bronold Louis china | Polk-Clement Directory Co., Publishers | Image pg. A221 |

### 1201 JEFFERSON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Metzger DeliaEdw Francis Fillmore Battery Service Station Co r | Polk-Clement Directory Co., Publishers | Image pg. A222 |

### 1215 JEFFERSON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | WARREN Robt W clk Ailing & Cory Co r | Polk-Clement Directory Co., Publishers | Image pg. A223 |

### 1228 JEFFERSON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | HOLMES John C gro | Polk-Clement Directory Co., Publishers | Image pg. A224 |
| | Holmes Chas E gro | Polk-Clement Directory Co., Publishers | Image pg. A224 |

### 1240 JEFFERSON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Landsittel Barbara slsldy Andrew Oliver h | Polk-Clement Directory Co., Publishers | Image pg. A225 |

## KIINGSLEY ST

### 32 KIINGSLEY ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | PETERS Herman gro | Polk-Clement Directory Co., Publishers | Image pg. A226 |

## KINGSLEY ST

### 5 KINGSLEY ST

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Freund Wm C gro | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Pirrello Camillo shoe reor | Polk-Clement Directory Co. Inc., | Image pg. A108 |

# FINDINGS

**7 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | LIPFORD CAROLINE R | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | WILLIAM WALTER JR | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Carmichael Geo | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Farches Emma | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Keller Ernest C | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Marks Harold J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Marks Harold J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Marks Grace R | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Marks Harold J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Marks Harold J | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Braun Fred | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Siegfried Louis J | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | LaBelle Engar H | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Lambert Boswell F | Polk-Clement Directory Co. Inc. | Image pg. A100 |

**8 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Massman Grace M mgr W H Germain rl | Polk-Clement Directory Co., Publishers | Image pg. A271 |

**9 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Keller Eug L | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Clohessy Edw J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Friedman Jessie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Clohessy Edw J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Friedman Jessie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Friedman Jessie C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Friedman Jessie C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1930 | Bowne John | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Harman Herbert | Polk-Clement Directory Co. Inc., | Image pg. A108 |

**12 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Fritz Chas A formn hl | Polk-Clement Directory Co., Publishers | Image pg. A227 |

# FINDINGS

**13 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | BECK Peter mason hl | Polk-Clement Directory Co., Publishers | Image pg. A228 |

**15 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Bilsky Aug J fnshr rl | Polk-Clement Directory Co., Publishers | Image pg. A229 |
| | Bilsky Anthony J auto mech rl | Polk-Clement Directory Co., Publishers | Image pg. A229 |
| | Bilsky Anna E phone opr rl | Polk-Clement Directory Co., Publishers | Image pg. A229 |
| | Bilski Anthony auto mech rl | Polk-Clement Directory Co., Publishers | Image pg. A229 |

**16 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Edwards Eola W | R. L. Polk Co., Publishers | Image pg. A26 |
| | Edwards Theo | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Edwards Theo | R. L. Polk Co., Publishers | Image pg. A33 |
| | Edwards Eola | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | HERTEL PHILIP J | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Hertel Philip J | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Hertel Philip J | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Hertel Philip J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Hertel Philip J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Hertel Philip J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Hertel Philip J | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Hertel Philip J | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | service | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Hertel Philip J msngr | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Harvey Hanes Mary foreldy r | Polk-Clement Directory Co., Publishers | Image pg. A230 |
| | Harmon Jas E pipectr r | Polk-Clement Directory Co., Publishers | Image pg. A230 |

## Kingsley St

**17 Kingsley St**

| Year | Uses | Source |
|---|---|---|
| 2014 | ST JOHNS MASONIC LODGE 16 PH | EDR Digital Archive |
| | ST JOHNS MASONIC LODGE 16 PH | EDR Digital Archive |
| 2010 | ST JOHNS MASONIC LODGE 16 PH | EDR Digital Archive |
| | ST JOHNS MASONIC LODGE 16 PH | EDR Digital Archive |

## KINGSLEY ST

### 17 KINGSLEY ST

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | ST JOHNS MASONIC LODGE social | Polk City Directories | Image pg. A3 |
| | serv & welfare org | Polk City Directories | Image pg. A3 |
| 2001 | ST JOHNS MASONIC LODGE 16 PH fraternal assns | EQUIFAX Polk City Directory | Image pg. A9 |
| 1998 | ST JOHNS MASONIC LODGE 16 PH | The Polk Company,City Directory Division | Image pg. A14 |
| | civic social assns | The Polk Company,City Directory Division | Image pg. A14 |
| 1985 | St Johns Lodge No | R. L. Polk Co., Publishers | Image pg. A26 |
| 1960 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Wagner Alvon G | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | rear Barenthaler Martha A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Wagner Alvon G | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Barenthaler Martha A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Fitscher Herman C | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Ley Sylvester | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Garlow Ruth Mrs | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Buffum Clarence | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | rear Handley Wm F | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Brinkus Frank J | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | COOK Thos tmstr h | Polk-Clement Directory Co., Publishers | Image pg. A231 |
| | Hessler Aug body bldr Watkins Commercial Body Corp h | Polk-Clement Directory Co., Publishers | Image pg. A232 |
| | HESSLER Ruth phone opr r | Polk-Clement Directory Co., Publishers | Image pg. A232 |

### 18 KINGSLEY ST

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A33 |
| | Tharp Fred H Jr | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Hall Ora Lee | R. L. Polk Co. | Image pg. A41 |
| | Thrap Fred | R. L. Polk Co. | Image pg. A41 |
| 1970 | HUNT SYLVESTER | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Hunt Sylvester | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Cunningham Thos | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Schmidt Wm H | Polk-Clement Directory Co. Inc., | Image pg. A63 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Vanderlinden Rose | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Schmidt Wm H | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Kiernan John J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Schmidt Wm H | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Kiernan John J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Schmidt Wm H | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Deth Minnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Schmidt Wm H | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Berry Kitchener | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Schmidt Wm H | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Felsman Albert | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Schmidt Wm H O | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Kiernan John | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Shoaff Jas W | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Hoelcher John E trucker N Y C R R | Polk-Clement Directory Co., Publishers | Image pg. A234 |
| | Hoelscher John driver h | Polk-Clement Directory Co., Publishers | Image pg. A234 |
| | SCHMIDT Esther elk Bishop Bros r | Polk-Clement Directory Co., Publishers | Image pg. A235 |
| | SCHMIDT Wm H trainmn h | Polk-Clement Directory Co., Publishers | Image pg. A236 |
| | Driess Fred lab r | Polk-Clement Directory Co., Publishers | Image pg. A233 |

**19 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Griffin Marian Mrs | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | No Return | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| | Thomas Ilene | R. L. Polk Co. | Image pg. A41 |
| 1970 | GRIFFIN MARY MRS | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Johnson Lucille Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Lundquist Aug R | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Lundquist Chas A | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Dixon Bertie | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Lundquist Chas A | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Matter Gerald A | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Lundquist Chas A | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Melson Alex | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Matter Gerald A | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Perry Wm J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Melson Alex | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Boldt Caroline Mrs | Polk-Clement Directory Co. Inc., | Image pg. A92 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Suits Everett S | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Boldt Caroline Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Boldt Caroline Mrs O | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Schmitt John | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | SMITH Philip r | Polk-Clement Directory Co., Publishers | Image pg. A238 |
| | SMITHJennie John h | Polk-Clement Directory Co., Publishers | Image pg. A237 |

**20 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Foster Carla | R. L. Polk Co., Publishers | Image pg. A33 |
| | Outling Bonnie | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Jones Beverly | R. L. Polk Co. | Image pg. A41 |
| | Tellis Lugenia Mrs | R. L. Polk Co. | Image pg. A41 |
| 1970 | BOHANNON GEO | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Peete Martha Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Moore Henry | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Spates Jessie | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Peete Martha | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Schreiner Carl | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Loton Ameila Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Litchner Harry A | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Sullivan Burtis | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Koster Mary Mrs Vacant | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Koster Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Broome Frances E | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Koster Mary Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Roster Albert | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Shaver Raymond W | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Koster Albert carp h | Polk-Clement Directory Co., Publishers | Image pg. A239 |
| | Koster Eliz A sten A M Goldberg Co r | Polk-Clement Directory Co., Publishers | Image pg. A239 |
| | Koster Jos brklyr h | Polk-Clement Directory Co., Publishers | Image pg. A239 |

**21 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | MARKS JOSEPH | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | No Return | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Miller Wm F jr | Polk-Clement Directory Co. Inc., | Image pg. A63 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Miller Wm F jr | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Miller Wm F | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Brown Harry | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Markle Anne Mrs | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Lokey Paul O | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Gasser John | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Gasser John swtchmn h | Polk-Clement Directory Co., Publishers | Image pg. A240 |

**22 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Showers Ruth A Mrs | R. L. Polk Co. | Image pg. A41 |
| 1970 | SHOWERS RUTH A MRS | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Showers Ruth Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Showers Ruth Mrs | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Showers Constant E | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Fountain Maurice E | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Fountain Maurice E | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Fountain Maurice E | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Bauer Geo C | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Hughto Clarence | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Gillen Chas | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Gillen Wm R formn h | Polk-Clement Directory Co., Publishers | Image pg. A241 |
| | Gillen Robt K slsmn r | Polk-Clement Directory Co., Publishers | Image pg. A241 |
| | Owen G inspr r | Polk-Clement Directory Co., Publishers | Image pg. A241 |
| | Gillen Michi waiter r | Polk-Clement Directory Co., Publishers | Image pg. A241 |
| | Gillen Chas E inspr r | Polk-Clement Directory Co., Publishers | Image pg. A241 |

**23 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Morris Paul A Jr J A | Polk City Directories | Image pg. A3 |
| | Morris Phyllis | Polk City Directories | Image pg. A3 |
| 1998 | Adams D | The Polk Company,City Directory Division | Image pg. A14 |
| 1992 | Wright Cynthia J | R. L. Polk Co., Publishers | Image pg. A20 |
| 1985 | Wright Cynthia J | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Toppins Patricia | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | No Return | R. L. Polk Co. | Image pg. A41 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Benzing John | R. L. Polk Co., Inc., Publishers | Image pg. A57 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Benzing John | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Benzing John | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Benzing John E | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Benzing John E | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Benzing John E | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Benzing John E | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Benzing John E | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Benzing John A clk Heywood Wakefield Co r | Polk-Clement Directory Co., Publishers | Image pg. A242 |
| | Benzing John E mach hd h | Polk-Clement Directory Co., Publishers | Image pg. A242 |
| | BENZING L wrence G ptrnmkr Modern Pattern VWks r | Polk-Clement Directory Co., Publishers | Image pg. A242 |

**24 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | JONES ADA M MRS | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Anderson Herbert E | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Anderson Vetran Mrs | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Sterling Paul J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Dietrich Geo A | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Brown Fred | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Zweers Hendrika Mrs | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Zweers Hendrika Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Zweers Wm | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Zweers Wm pkr Robertson C E Co r | Polk-Clement Directory Co., Publishers | Image pg. A243 |
| | Zweers Wm elev opr h | Polk-Clement Directory Co., Publishers | Image pg. A243 |

**25 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Banks Gertrude E | Polk City Directories | Image pg. A3 |
| 2001 | Banks Amos M & Gertrude | EQUIFAX Polk City Directory | Image pg. A9 |
| 1998 | Banks Amos M 1 S A | The Polk Company,City Directory Division | Image pg. A14 |
| 1992 | Banks Amos M | R. L. Polk Co., Publishers | Image pg. A20 |
| 1985 | Banks Amos M | R. L. Polk Co., Publishers | Image pg. A26 |
| 1975 | Banks Amos M | R. L. Polk Co. | Image pg. A41 |
| | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | BANKS AMOS M | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Banks Amos M | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Banks Amos M | Polk-Clement Directory Co. Inc., | Image pg. A63 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Hoelscher Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Hoelscher Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Hoelscher Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Hoelscher Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Hoelscher Raymond J | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Zirbes Kath | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | KANE Thos P trimmer r | Polk-Clement Directory Co., Publishers | Image pg. A244 |
| | Zirbes Eliz M r | Polk-Clement Directory Co., Publishers | Image pg. A245 |
| | Zirbes Kath B h | Polk-Clement Directory Co., Publishers | Image pg. A245 |

**26 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Stokes Henrietta | R. L. Polk Co., Publishers | Image pg. A33 |
| | Banks Amos M | R. L. Polk Co., Publishers | Image pg. A33 |

**27 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Smith Josephine | R. L. Polk Co., Publishers | Image pg. A20 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Stephney Geraldine Mrs | R. L. Polk Co., Publishers | Image pg. A33 |
| | Ham D | R. L. Polk Co., Publishers | Image pg. A33 |
| | Moton Wilma | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Stepney Geraldine | R. L. Polk Co. | Image pg. A41 |
| 1970 | JOHNSON JIM | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | ROSS PAULINE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Johnson Tim | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Bates Henrietta R Mrs | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Bates Henrietta Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Looney Edw E | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Bates Clayton | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Clark Arth | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Clark Arth | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Strade Fredk A | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Zech Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Baranowski Bertha Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Scheer John F | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Baranowski Bertha Mrs | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Kingswell Geo F | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Baranowski Ignatz tailor h | Polk-Clement Directory Co., Publishers | Image pg. A246 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Baranowski Chester chemist r | Polk-Clement Directory Co., Publishers | Image pg. A246 |
| | KWIATKOWSKIJohn Paul stonectr r | Polk-Clement Directory Co., Publishers | Image pg. A247 |
| | Baranowski Stanley forester r | Polk-Clement Directory Co., Publishers | Image pg. A246 |

**30 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Overton Raymond | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Bodecker Andrew M | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Boedecker Andrew M | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Springer John A | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Nebrich Frank X | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Rigley Jos F | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Weisma Dtel Mark P | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Nebrich Peter C Nebrich & Goerger h | Polk-Clement Directory Co., Publishers | Image pg. A248 |
| | Nebrich Gertrude bkpr r | Polk-Clement Directory Co., Publishers | Image pg. A248 |

**31 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Duncan Sheila A H | Polk City Directories | Image pg. A3 |
| 2001 | Coleman Teri A | EQUIFAX Polk City Directory | Image pg. A9 |
| | Coleman Janice M | EQUIFAX Polk City Directory | Image pg. A9 |
| | Toppins Dana A | EQUIFAX Polk City Directory | Image pg. A9 |
| | Wright Ruth A | EQUIFAX Polk City Directory | Image pg. A9 |
| | Wrinn William | EQUIFAX Polk City Directory | Image pg. A9 |
| | Not Verified | EQUIFAX Polk City Directory | Image pg. A9 |
| 1998 | Rutffin P | The Polk Company,City Directory Division | Image pg. A14 |
| | Wright Donald W 81 A | The Polk Company,City Directory Division | Image pg. A14 |
| 1992 | Wright Wm | R. L. Polk Co., Publishers | Image pg. A20 |
| 1985 | Wright Wm | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Wright Wm | R. L. Polk Co., Publishers | Image pg. A33 |
| | Toppins Patricia | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Wright Wm | R. L. Polk Co. | Image pg. A41 |
| | Rear Coleman Janice Mrs | R. L. Polk Co. | Image pg. A41 |
| 1970 | WRIGHT WM | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | COLEMAN JANICE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Wright Wm | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Allison Juanita Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Serach Wm J | Polk-Clement Directory Co. Inc., | Image pg. A63 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Doll Jacob P | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Serach Wm J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Doll Jacob P | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Serach Wm J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Doll Jacob P | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Serach Wm J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Doll Jacob P | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Serach Wm J | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Doll Jacob P | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Serach Rose J Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Serach Lola M nurse | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | rear Mack Wm T | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Serach Rose J Mrs | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Sarach Frances sten r | Polk-Clement Directory Co., Publishers | Image pg. A250 |
| | Frank brklyr r | Polk-Clement Directory Co., Publishers | Image pg. A250 |
| | Sarach Frances sten r | Polk-Clement Directory Co., Publishers | Image pg. A250 |
| | Harry brklyr r | Polk-Clement Directory Co., Publishers | Image pg. A250 |
| | Sarach Helen bkpr r | Polk-Clement Directory Co., Publishers | Image pg. A250 |
| | SARACH Lola r | Polk-Clement Directory Co., Publishers | Image pg. A251 |
| | SARACH Walter r | Polk-Clement Directory Co., Publishers | Image pg. A251 |
| | SARACH Wm brklyr r | Polk-Clement Directory Co., Publishers | Image pg. A251 |
| | Serach Aug brklyr h | Polk-Clement Directory Co., Publishers | Image pg. A252 |
| | Serach Helen clk J N Adam & Co r | Polk-Clement Directory Co., Publishers | Image pg. A252 |
| | Serach Helen clk J N Adam & Co r | Polk-Clement Directory Co., Publishers | Image pg. A252 |
| | Henry J brklyr r | Polk-Clement Directory Co., Publishers | Image pg. A252 |
| | Serach Helen clk J N Adam & Co r | Polk-Clement Directory Co., Publishers | Image pg. A252 |
| | Wm J brklyr r | Polk-Clement Directory Co., Publishers | Image pg. A252 |
| | Sarach Frances sten r | Polk-Clement Directory Co., Publishers | Image pg. A250 |
| | LORENZ Mary r | Polk-Clement Directory Co., Publishers | Image pg. A249 |

**32 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Peters Herman | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Peters Herman | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Peters Herman gro | Polk-Clement Directory Co. Inc., | Image pg. A108 |

# FINDINGS

**33 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Robinson Nesbey | R. L. Polk Co. | Image pg. A41 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Kimbrough Calvin | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Lonien Adam | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Lonien Adam P | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Lonien Adam | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Lonien Adam | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Lonien Adam | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Lonien Adam | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Lonien Adam | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Koelzow Edw chauf r | Polk-Clement Directory Co., Publishers | Image pg. A253 |
| | Sippel Geo C lab r | Polk-Clement Directory Co., Publishers | Image pg. A254 |

**34 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | FRIERSON BERNICE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Williams King | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Kratzer Albert J | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Kratzer Albert J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Schaefer Frank H | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Kratzer Albert J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Schaefer Frank H | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Kratzer Albert J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Myers Lillian Mrs | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Zimmerman Edw J | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Mvers Lillian Mrs | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Zimmerman Edw J | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Fox Herbert | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Zimmerman Edw J | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Twiss Henry W h | Polk-Clement Directory Co., Publishers | Image pg. A255 |

**35 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | JAINES ROBERTA | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Mack Grover | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Bufford Virginia | R. L. Polk Co., Inc., Publishers | Image pg. A57 |

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Fugerson Viester V Mrs | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Williams Donald | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Brown Robt W | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Kendall Fredk W | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Witter Leroy E | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Kendall Fredk W | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Kolb Alf A elec contr | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Rinow Edw C | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Kolb Alf A | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Rinow Edw C | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Oelschlaeger Edna Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Rinow Edw C | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Finkbeiner Albrecht | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Renow Edw | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Edwin slsmn r | Polk-Clement Directory Co., Publishers | Image pg. A256 |
| | DEMSKE Julia wid Frank h | Polk-Clement Directory Co., Publishers | Image pg. A256 |
| | Rinow Edw C driver h | Polk-Clement Directory Co., Publishers | Image pg. A257 |
| | Demske Albert musician h | Polk-Clement Directory Co., Publishers | Image pg. A256 |

**36 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | NO RETURN | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Zimmerman Alice M Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Zimmerman Alice M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Zimmerman Alice M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Zimmerman Edw J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Zimmerman Edw J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Hill Edw S | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Phelps Ethel L Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Phelps Winthrop HO | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | PHELPS Winthrop L carp h | Polk-Clement Directory Co., Publishers | Image pg. A258 |

**38 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | 39 No Current Listing 2 Hses | Polk City Directories | Image pg. A3 |
| 2001 | Blythe Marie | EQUIFAX Polk City Directory | Image pg. A9 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Pigford Kenneth | EQUIFAX Polk City Directory | Image pg. A9 |
| 1998 | Blythe Marie | The Polk Company,City Directory Division | Image pg. A14 |
| 1992 | Blythe Marie Mrs | R. L. Polk Co., Publishers | Image pg. A20 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A20 |
| 1985 | Blythe Marie Mrs | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Blythe Marie Mrs | R. L. Polk Co., Publishers | Image pg. A33 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Blythe Marie Mrs | R. L. Polk Co. | Image pg. A41 |
| | Payne Fannie | R. L. Polk Co. | Image pg. A41 |
| 1970 | BLYTHE MARIE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | PAYNE FANNIE | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Blythe Marie Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Payne Fannie | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Blythe Marie | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Graddick Robt L | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Cleveland Madeline B Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Wesling Albert | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Klinek Chas C | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Wesling Albert R | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Wesling Albert R | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Klinck Chas C | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Wesling Albert R | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Wesling Albert R | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | LaRock Roscoe A | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Wesling Albert R | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | La Rock Roscoe | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | SMITH Henry mattresswkr Hard Mfg Co h | Polk-Clement Directory Co., Publishers | Image pg. A259 |
| | Wesling Albert slsmn C D Kenny Co h | Polk-Clement Directory Co., Publishers | Image pg. A260 |

**39 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Graddick Tenietria | EQUIFAX Polk City Directory | Image pg. A9 |
| | Graddick Marcus | EQUIFAX Polk City Directory | Image pg. A9 |
| 1998 | Pressley L J | The Polk Company,City Directory Division | Image pg. A14 |
| | Graddick Robert L B A | The Polk Company,City Directory Division | Image pg. A14 |
| 1992 | Graddick Robt L | R. L. Polk Co., Publishers | Image pg. A20 |
| 1985 | Graddik Sechrenia P | R. L. Polk Co., Publishers | Image pg. A26 |
| | Graddik Robt | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Graddik Robin | R. L. Polk Co., Publishers | Image pg. A33 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Graddik Robt | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Craig Henry | R. L. Polk Co. | Image pg. A41 |
| | Graddik Robt | R. L. Polk Co. | Image pg. A41 |
| 1970 | GRADDICK ROBT L | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Graddick Robt L | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1955 | Eldridge Willard | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Eldridge Garry | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Heitman Gerald F | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Eldridge Willard F | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Eldridge Willard | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Kendall Fredk W | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Thielman Cath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Keating Jos P | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Thielman Cath Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Woodside Alex R | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Thielman Cath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Dietz Wm E | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Trick Barbara r | Polk-Clement Directory Co., Publishers | Image pg. A263 |
| | Thielman Emil A clk Walbridge & Co h | Polk-Clement Directory Co., Publishers | Image pg. A262 |
| | Maxwell Peter eng h | Polk-Clement Directory Co., Publishers | Image pg. A261 |

**40 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Bick Fred | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Bick Fred | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Bick Fred | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Bick Fred | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Bick Fred | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Bick Fred | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Bick Fred | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Bick Barbara Mrs | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Bick Teresa slsldy Hausbeck Co r | Polk-Clement Directory Co., Publishers | Image pg. A264 |
| | Bick Barbara wid Aug h | Polk-Clement Directory Co., Publishers | Image pg. A264 |

**43 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Not Verified | EQUIFAX Polk City Directory | Image pg. A9 |
| 1992 | Robinson Emma A Mrs | R. L. Polk Co., Publishers | Image pg. A20 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Robinson Emma A Mrs | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Douglas Donna | R. L. Polk Co., Publishers | Image pg. A33 |
| | Teilmon Wilbert | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Wait Ernest | R. L. Polk Co. | Image pg. A41 |
| | Ford Philip | R. L. Polk Co. | Image pg. A41 |
| 1970 | WAIT ERNEST N | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | FORD FRANK F | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Wait Ernest N | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Ford Frank F | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Ford Frank F | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Wait Ernest N | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Morris Douglas G | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Seames Louis F | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Morris Douglas G | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Seames Louis F | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Holton Arth F | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Seames Louis F | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Holton Arth F | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Holton Arth F | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Lemm Henry H | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Holton Arth F | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Wassinger Raymond r | Polk-Clement Directory Co., Publishers | Image pg. A266 |
| | Dotzler Julius dairymn R W Jones r | Polk-Clement Directory Co., Publishers | Image pg. A265 |
| | Wassinger Michi r | Polk-Clement Directory Co., Publishers | Image pg. A266 |

**46 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Bocker Tanya D 1 R | Polk City Directories | Image pg. A3 |
| | Greer Verbie L | Polk City Directories | Image pg. A3 |
| 2001 | Booker Tanya D | EQUIFAX Polk City Directory | Image pg. A9 |
| | CONNIES MOVING COMPANY moving serv | EQUIFAX Polk City Directory | Image pg. A9 |
| | Greer V L | EQUIFAX Polk City Directory | Image pg. A9 |
| 1998 | Booker Josephine J E | The Polk Company,City Directory Division | Image pg. A14 |
| | CONNIES MOVING CO radio tv | The Polk Company,City Directory Division | Image pg. A14 |
| | Greer Verbie L I E | The Polk Company,City Directory Division | Image pg. A14 |
| 1992 | Booker Tonya | R. L. Polk Co., Publishers | Image pg. A20 |
| | Greer Virbie | R. L. Polk Co., Publishers | Image pg. A20 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A20 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Turley David | R. L. Polk Co., Publishers | Image pg. A26 |
| | Greer Virbie | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Sumlin Rymond | R. L. Polk Co., Publishers | Image pg. A33 |
| | Vaughn Robt | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Sumlin Raymond | R. L. Polk Co. | Image pg. A41 |
| | Vaughn Robt | R. L. Polk Co. | Image pg. A41 |
| 1970 | JONES S E & SON STGE | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | JONES WINIFRED S | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | VAUGHN ROBT | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Jones S E & Son stge | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Jones Winifred S | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Vaughn Robt | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Jones Winifred S | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Jones S E & Son garage | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Simson Arth J | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Semson Curtis | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Semson Curtis | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Jones Winifred S | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Jones S E & Son garaga | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Jones Winifred | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Hoyler Theo W | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Jones Winifred | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Eckstrom Albert W | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Jones Winifred S | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Stroke Fredk E | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Jones Winifred S | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Weis Fredk H | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Phillips Gladys G Mrs | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Walter inspr h | Polk-Clement Directory Co., Publishers | Image pg. A267 |
| | Phineas Roosevelt lab r | Polk-Clement Directory Co., Publishers | Image pg. A267 |

**49 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |

**50 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A20 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Thagard James | R. L. Polk Co., Publishers | Image pg. A26 |
| | Taylor Mattie Mrs | R. L. Polk Co., Publishers | Image pg. A26 |
| 1980 | Taylor Mattie Mrs | R. L. Polk Co., Publishers | Image pg. A33 |
| | Craft Kath | R. L. Polk Co., Publishers | Image pg. A33 |
| 1975 | Brown Martha | R. L. Polk Co. | Image pg. A41 |
| | Taylor Ole | R. L. Polk Co. | Image pg. A41 |
| 1970 | THRIST PEARL | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | BOYD ALFRED | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Terry Isiah L | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| | Ellis Marion | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Derenda Stanley J | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | Kurchingko Anna L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Simon Anna M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | Rust Jack N | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Simon Chas | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Rust John N | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Simon Chas | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Rust John N | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Simon Chas | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Rust John N | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Simon Chas | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Rust John N | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Simon Chas | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Simon Chas mach h | Polk-Clement Directory Co., Publishers | Image pg. A268 |

**52 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Sander Emma B Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | Sander Emma B Mrs | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | Masse Martha A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | Masse Peter J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | Masse Peter J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Masse Peter J | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Masse Peter J | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Masse Peter | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Masse Peter mach h | Polk-Clement Directory Co., Publishers | Image pg. A270 |
| | Masa Frank elk r | Polk-Clement Directory Co., Publishers | Image pg. A269 |
| | Masa Peter J mach h | Polk-Clement Directory Co., Publishers | Image pg. A269 |

# FINDINGS

**53 KINGSLEY ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A41 |
| 1970 | DANIELS HENRY | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | JACKSON JEANETTE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| | LYONS MOZELLE | R.L. Polk Company, Inc., Publishers | Image pg. A49 |
| 1964 | Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A57 |
| 1960 | No return | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| | rear Faulkner Louis F | Polk-Clement Directory Co. Inc., | Image pg. A63 |
| 1955 | ORawe Wm J | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| | rear Zimmer Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A70 |
| 1950 | ORawe Wm J | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Diebold Paul E | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| | Zimmer Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A78 |
| 1946 | ORawe Wm J | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Diebold Paul E | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| | Dodge Esther | Polk-Clement Directory Co. Inc., | Image pg. A85 |
| 1940 | Collins John P | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Masse Paul J | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| | Hy Nicholas J | Polk-Clement Directory Co. Inc., | Image pg. A92 |
| 1935 | Masse Johanna Mrs | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | rear Schlau Peter J | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| | Hy Nicholas L | Polk-Clement Directory Co. Inc. | Image pg. A100 |
| 1930 | Mosse Frank | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Masse Paul | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| | Fohl Ernest | Polk-Clement Directory Co. Inc., | Image pg. A108 |
| 1925 | Masse Louise forldy r | Polk-Clement Directory Co., Publishers | Image pg. A270 |
| | Masse Frank brklyr h | Polk-Clement Directory Co., Publishers | Image pg. A270 |

## NORTHAMP ST

**302 NORTHAMP ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Hereth Frances M emp N Y Tel Co r | Polk-Clement Directory Co., Publishers | Image pg. A272 |

**314 NORTHAMP ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | E Rose elk B S & S M Bushman r | Polk-Clement Directory Co., Publishers | Image pg. A274 |
| | Doerfler Frank mach G E Elias & Bro h | Polk-Clement Directory Co., Publishers | Image pg. A273 |

# FINDINGS

**322 NORTHAMP ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Dill Otto F v pres W H Dill Co Inc h | Polk-Clement Directory Co., Publishers | Image pg. A275 |

**368 NORTHAMP ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Kiedel Wm chauf G Lang Brewery r | Polk-Clement Directory Co., Publishers | Image pg. A276 |

**372 NORTHAMP ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Lane Mae smstrs J N Adam & Co r | Polk-Clement Directory Co., Publishers | Image pg. A277 |

**376 NORTHAMP ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | MILLER Henry M asst sec Buff Ins Co h | Polk-Clement Directory Co., Publishers | Image pg. A278 |

**390 NORTHAMP ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Burkard Clara elev opr Fidelity Bldg r | Polk-Clement Directory Co., Publishers | Image pg. A279 |

## NORTHAMPTON

**393 NORTHAMPTON**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | WILSON Clarence W pntr h | Polk-Clement Directory Co., Publishers | Image pg. A280 |

## NORTHAMPTON AVE

**401 NORTHAMPTON AVE**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | OTIS Hannah wid Geqc A r | Polk-Clement Directory Co., Publishers | Image pg. A281 |

## NORTHAMPTON ST

**284 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | GREELEY RUSSELL | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | LINDSEY PAULINE M | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | HARDY ULYSSES | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | rear Greeley Russell | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Allen Aaron jr | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | rear Greely Russell | Polk-Clement Directory Co. Inc., | Image pg. A61 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Hall Donald F | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Feldmeyer Geo F | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Shaw Edw N | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Feldmeyer Geo F | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Shaw Edw N | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Feldmeyer Geo F | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Schriver Jas G | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Shaw Edw N | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | rear Laufer Edw C | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Ranney Chas L | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | NORTHAMPTON Contd | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Uebelhoer Jos E | Polk-Clement Directory Co. Inc., | Image pg. A109 |
| | Gibbs Crinis | Polk-Clement Directory Co. Inc., | Image pg. A109 |

**286 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | POWELL MARY | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | VEASLEY JOHN | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Jones Mary E Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Veasley John | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Smith Willie M | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Gaines Frank | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Talbot Charlotte H Mrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Bazin Paul A | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Talbot Jos R | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear Fairchild Chas M | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Fairchild Chas M | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Talbot Jos R | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Bazin Paul A | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Bazin Paul A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Mayer Julius | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Fairchild Chas M | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Scott Wm R | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Mayer Julius | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Fairchild Chas M | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | rear Fairchild Chas M paperhngr | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Scott Wm R | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Colebrook Wm G | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Halt Albert W | Polk-Clement Directory Co. Inc., | Image pg. A105 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Fairchild Chas M Dntr | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Weipert Aug C r | Polk-Clement Directory Co., Publishers | Image pg. A285 |
| | WAGNER Julia r | Polk-Clement Directory Co., Publishers | Image pg. A284 |
| | Scott Wm R firemn h | Polk-Clement Directory Co., Publishers | Image pg. A283 |
| | Redanz Ruth S sten H J Adams r | Polk-Clement Directory Co., Publishers | Image pg. A282 |
| | Redanz Frank M eng h | Polk-Clement Directory Co., Publishers | Image pg. A282 |

**290 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Shirton Willsey Laundry br | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A105 |

**291 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Calhoun Kathy N | Polk City Directories | Image pg. A4 |
| 2001 | Merriweather Roosevelt | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Bives Norma | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Bibbes Barbara J Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Williams Joseph P | R. L. Polk Co. | Image pg. A38 |
| | Douglas Ida | R. L. Polk Co. | Image pg. A38 |
| 1970 | DOUGLAS IDA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Douglas Ida Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Douglas Ida | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Brown Carroll | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Scott Kenneth F | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Scott Kenneth F | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Emerson M Irena Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Schruefer Chas J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Schruefer Chas JO | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Schruefer Chas J police h | Polk-Clement Directory Co., Publishers | Image pg. A286 |

**295 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Allen David D | Polk City Directories | Image pg. A4 |
| | Allen Angeline S | Polk City Directories | Image pg. A4 |
| 2001 | Allen Essie M | EQUIFAX Polk City Directory | Image pg. A10 |
| | Allen Robert | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Allen Essie M Mrs | R. L. Polk Co., Publishers | Image pg. A21 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Allen David | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Allen Essie M Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| | Allen David | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Allen Solomon | R. L. Polk Co., Publishers | Image pg. A34 |
| | Allen Essie M Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Allen Aaron | R. L. Polk Co. | Image pg. A38 |
| | Allen Solomon | R. L. Polk Co. | Image pg. A38 |
| 1970 | ALLEN AARON | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | ALLEN SOLOMON | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Allen Solomon | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Allen Aaron A | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Allen Solomon | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Allen Aaron A | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Perdue Wilson | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Allen Aaron A | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Mittner Henry W | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Otis Chas J | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Weihmueller Jacob | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Yaeger Geo A | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Carl Geo A | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Palmer Wallace A | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Peiker Eliz | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Michel Henry | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Stumm Edw slsmn h | Polk-Clement Directory Co., Publishers | Image pg. A289 |
| | Snyder Fred J electro r | Polk-Clement Directory Co., Publishers | Image pg. A288 |
| | Eliz h | Polk-Clement Directory Co., Publishers | Image pg. A287 |
| | Peiker Adelaide slswmn J N Adam & Co r 295 | Polk-Clement Directory Co., Publishers | Image pg. A287 |

## Northampton St

**298 Northampton St**

| Year | Uses | Source |
|---|---|---|
| 2010 | BUFFALO REUSE | EDR Digital Archive |
| | BUFFALO REUSE | EDR Digital Archive |

# FINDINGS

## NORTHAMPTON ST

### 298 NORTHAMPTON ST

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | establishments | Polk City Directories | Image pg. A4 |
| | BUFFALO REFUSE nonclassified | Polk City Directories | Image pg. A4 |

### 299 NORTHAMPTON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A38 |
| | Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | MC CLURE JAMES T | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Hill Edw S | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | McLean Cordelia N Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Schenk Clara L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Schenk Clara L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Hill Edw S | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Schenk Clara L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Pezold David H | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Schenk Clara L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Pezold David H | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Bingham Jas G | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | McLean Geo F | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Schenk Clara L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | McLean Geo F | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Schenk Clara L Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Silvernail Alice Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Lewis Susan Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Schenk Clara Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Schenk Clara wid Chas r | Polk-Clement Directory Co., Publishers | Image pg. A292 |
| | Mc Geo F chauf h | Polk-Clement Directory Co., Publishers | Image pg. A291 |
| | Hehr Fredk Rev h | Polk-Clement Directory Co., Publishers | Image pg. A290 |

### 300 NORTHAMPTON ST

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | CLARK BONO ROOFING & CONSTRUCTION COMPANY OFC WHSE roofing contr | EQUIFAX Polk City Directory | Image pg. A10 |
| | STANDARD BUILDING SERVICES | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A27 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Modern Linen Supply Co Inc | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Modern Linen Supply Co Inc | R. L. Polk Co. | Image pg. A38 |
| 1970 | MODERN LINEN SUPPLY CO INC | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Modern Linen Sup Co Inc | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Modern Linen Sup Co Inc | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Modern Linen Sup Co Inc | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | General Overall Supply | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Merchants Linen Supply | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Buffalo General Overall Supply Service | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Merchants Linen Supply | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Shirton Willsey Laundry br | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Buffalo General Overall Supply Service | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Shirton Willsey Laundry br | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Shirton Willsey Laundry | Polk-Clement Directory Co. Inc., | Image pg. A105 |

## Northampton St

**302 Northampton St**

| Year | Uses | Source |
|---|---|---|
| 2014 | ASCENDING BAPTIST CHURCH | EDR Digital Archive |
| | RICHARD DANIELS | EDR Digital Archive |
| | ASCENDING BAPTIST CHURCH | EDR Digital Archive |
| | RICHARD DANIELS | EDR Digital Archive |
| 2010 | ASCENDING BAPTIST CHURCH | EDR Digital Archive |
| | ASCENDING BAPTIST CHURCH | EDR Digital Archive |

## NORTHAMPTON ST

**302 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | DANIELS RICHARD clergy | Polk City Directories | Image pg. A4 |
| 2001 | DANIELS RICHARD SR REV | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Ascending Baptist Church | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Ascending Baptist Church | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Ascending Baptist Church | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Ascending Baptist Church | R. L. Polk Co. | Image pg. A38 |
| 1970 | ASCENDING BAPTIST CHURCH | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Isaacs John H Co canvas gds mfrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Isaacs John H | R. L. Polk Co., Inc., Publishers | Image pg. A53 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Isaacs John H Co canvas gds mfrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Isaaes John H Co canvas gds mfrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Isaacs John H Co canvas gds mfrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Isaaes Mary E | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Isaacs John H Co canvas gds mfrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Isaacs John H | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Isaacs John H Co awnings | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Isaacs John H | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Isaacs John H awnings | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Gross Harry A | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Isaacs John H | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Hereth Julia emp N Y Tel Co r | Polk-Clement Directory Co., Publishers | Image pg. A293 |
| | Hereth Rose h | Polk-Clement Directory Co., Publishers | Image pg. A293 |
| | Isaacs Leslie hlpr r | Polk-Clement Directory Co., Publishers | Image pg. A294 |

**303 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Cooper Kenneth M & Claudia M E | Polk City Directories | Image pg. A4 |
| | D Potter Sharon | Polk City Directories | Image pg. A4 |
| 2001 | Cooper Kenneth | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Jakes Saml | R. L. Polk Co., Publishers | Image pg. A21 |
| | Pace Ora D Mrs | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Jakes Saml | R. L. Polk Co., Publishers | Image pg. A27 |
| | Rear Pace Ora D Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Jakes Saml | R. L. Polk Co., Publishers | Image pg. A34 |
| | Rear Pace Ora | R. L. Polk Co., Publishers | Image pg. A34 |
| | RearAllen Paulette | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Rear Vacant | R. L. Polk Co. | Image pg. A38 |
| | Jakes Sam | R. L. Polk Co. | Image pg. A38 |
| | Jakes Rubin | R. L. Polk Co. | Image pg. A38 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | KUNZ THERESA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | WIDEMAN MACIE L MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Richardson Lawrence | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | rear Kunz Theo A jr | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Wideman Marie L Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Richardson Lawrence | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | rear Collins Annie B | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Kunz Theo A jr | Polk-Clement Directory Co. Inc., | Image pg. A61 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Atherton Kenneth M | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear Kunz Theo A | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Thomson Thos D | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Stoesser Naomi K | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Kunz Theo A | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Bohn Martha L | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Stoesser Gustav H | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Kunz Theo A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Bohn Martha L | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Stoesser Gustav H | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Kunz Theo A jr | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Gardner Thos W | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Stoesser Gustav H | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | rear Zwelling Julius P | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Bolz Fred J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Stoesser Gustav H | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Stoesser Fredk G ohys | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Corretore Dani A | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Carretore Dani clk h rear | Polk-Clement Directory Co., Publishers | Image pg. A295 |
| | Nesper Barbara shoe ftr Knaier Shoe Co r rear | Polk-Clement Directory Co., Publishers | Image pg. A296 |
| | Nesper Rose smstrs h rear | Polk-Clement Directory Co., Publishers | Image pg. A296 |
| | Stoesser Gustave H tailor Christian F Drumm h 303 | Polk-Clement Directory Co., Publishers | Image pg. A297 |
| | Naomi tchr r | Polk-Clement Directory Co., Publishers | Image pg. A297 |

**304 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | D Lewis Nataija | Polk City Directories | Image pg. A4 |
| | Ray Nicole D A | Polk City Directories | Image pg. A4 |
| | Ray Rondal S | Polk City Directories | Image pg. A4 |
| | Schmigiel Andrew | Polk City Directories | Image pg. A4 |
| 2001 | Ford George | EQUIFAX Polk City Directory | Image pg. A10 |
| | Ford Alberta B | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Ford Alberta B Mrs | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Ford Alberta B Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Ford Alberta B Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Ford Geo | R. L. Polk Co. | Image pg. A38 |
| 1970 | FORD GEO | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | PEAK C T | R.L. Polk Company, Inc., Publishers | Image pg. A45 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Ford Geo | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Ford Geo | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Ford Geo | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | McLean Neal | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Wunsch Chas W | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Crosby Ethel C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Hoffman Conrad paperhngr | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Wunsch Chas W | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Crosby Chester A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Wunsch Chas W | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Crosby Chester A | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Wunsch Chas W | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Horsch Wm P | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Wunsch Chas W | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Lowitzer Ferdinand | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Wunsch Chas W eng Larkin Co Inc h | Polk-Clement Directory Co., Publishers | Image pg. A298 |

**305 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | 306 No Current Listing 2 Hses | Polk City Directories | Image pg. A4 |
| 1992 | Mc Conico Orvin | R. L. Polk Co., Publishers | Image pg. A21 |
| 1975 | Mc Conico Orvin | R. L. Polk Co. | Image pg. A38 |
| 1970 | MC CONICO ORVILLE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Hahm Christie P | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Hahm Christie P | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Hahm Christie P | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Hahm Christie P | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Hahm Christie P | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Hahm Christie P | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Applebaum Benj | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Erie Plumbing Inc | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Pfotzer Roy G MD | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Pfotzer Wm | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Pfotzer Roy G phys | Polk-Clement Directory Co., Publishers | Image pg. A299 |
| | Pfotzer Wm slsmn Hersee & Co h | Polk-Clement Directory Co., Publishers | Image pg. A299 |
| | ROOS Mary r | Polk-Clement Directory Co., Publishers | Image pg. A300 |

# FINDINGS

**306 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Collins Charlene D | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Hall Thos C | R. L. Polk Co., Publishers | Image pg. A27 |
| | Hall Donna | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Mc Conico Orvin | R. L. Polk Co., Publishers | Image pg. A34 |
| | Smith Rose Marie | R. L. Polk Co., Publishers | Image pg. A34 |
| | Merriweather Thos J | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Merriweather Lucille C Mrs | R. L. Polk Co. | Image pg. A38 |
| | Stone Mildred Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | MERRIWEATHER LUCILLE C | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Merriweather Lucille C Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Levi Oliver | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Clark Ruth | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Potter Carl | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Otis Chas | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Otis Chas J | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Bade Pauline A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Perry John H | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Bade Pauline A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Perry John H | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Bade Pauline A Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Poirier Henry J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Bade Pauline A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Poirier Henry | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Bade Geo electn r | Polk-Clement Directory Co., Publishers | Image pg. A301 |
| | Bade Pauline wid Ernst h | Polk-Clement Directory Co., Publishers | Image pg. A301 |

**310 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Butler Balsie | R. L. Polk Co. | Image pg. A38 |
| | Vacant | R. L. Polk Co. | Image pg. A38 |
| | Rear Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | MERCHANT ANNIE R | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | WARD GERTRUDE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Honeycutt Levi | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Stone Juanita | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Benton Myrtle Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | rear Craft Booker | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Lehner John | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Shaw Minnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Dolson Fredk D | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Lehner John | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Shaw Minnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | McCoy Wellington M | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear Peters Harriet L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Seib Ledith K | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Dallas Nicholas | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Kennedy Robt | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Peters Harriet Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Carlson Louis | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Hoffmann Conrad paperhngr | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Snipas Stanley A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Peters Harriet Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Laemmerhirt Ernest P | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Neidhardt Arth F | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Peters Wm F | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Handel Fred A | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Kumpf Bertha Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | rear Sullivan Cornelius T | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Neidhardt Arth F | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Stewart Fredk | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Bailey Gilbert h | Polk-Clement Directory Co., Publishers | Image pg. A302 |
| | Dorscheid Lawrence mech Ecelso Specialty Wks h rear | Polk-Clement Directory Co., Publishers | Image pg. A303 |
| | Handel Fred coremkr h | Polk-Clement Directory Co., Publishers | Image pg. A304 |
| | OSBORN Frank D lake capt r rear | Polk-Clement Directory Co., Publishers | Image pg. A305 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | White Laureda L & Donald J | Polk City Directories | Image pg. A4 |
| 2001 | Carey James L & Willa | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Carey James L | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Carey James L | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Carey James L | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Carey James L | R. L. Polk Co. | Image pg. A38 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | CAREY JAMES L | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Carey Jas L | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Carey Jas L | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Roth Edwin | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Fix Arth J | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Fix Arth J roofer | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Fix Arth J sheet metal wks | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Fix Arth J sheet metal wks | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Fix Arth JO sheet metal | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Fix Arth J roofer | Polk-Clement Directory Co., Publishers | Image pg. A306 |

**314 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | GREEN RUTH | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | BELL ANITA L MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | LEBRON JULIA | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | McIlwain Nebraska | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Stroud Jas | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | rear Lindsay Annie | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Gamble Willie | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Carter Ruth | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Beason Ellicott | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Stewart Wm M | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Schroeder Roger H | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Miller Robt C | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Crosby Jas B | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Crosby Jas B | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Eye Floyd C | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Crosby Jas B | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Zoeller Lawrence A | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Crosby Jas B | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Clark Nola nurse | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Boyle Irma K nurse | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | CROSBY Jas B uphol h | Polk-Clement Directory Co., Publishers | Image pg. A307 |
| | Locust Fred pntr h | Polk-Clement Directory Co., Publishers | Image pg. A308 |

**315 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A4 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Not Verified | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Wright Juanita | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Murry | R. L. Polk Co., Publishers | Image pg. A27 |
| 1975 | Blue Edw | R. L. Polk Co. | Image pg. A38 |
| 1970 | BLUE LOUISE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Stringfellow Jas | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Stringfellow Jas | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Moquin Albert J jr | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Moquin Albert J Jr | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Moquin Albert J jr | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Hathway Fred W | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Beck Augusta Mrso | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Beck Elmer C chiropractor | Polk-Clement Directory Co., Publishers | Image pg. A309 |
| | BECK Wm steward r | Polk-Clement Directory Co., Publishers | Image pg. A310 |

**316 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Blue Louise | R. L. Polk Co., Publishers | Image pg. A34 |

**317 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | HOLLINS MARY MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Lark Oscar | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Haberman Anthony | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Blumreich Henry G | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Garno Jos | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Bob Nthan | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Uhleman Verna Mrs nurse | Polk-Clement Directory Co. Inc., | Image pg. A105 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Tyler Raymond | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Tyler Raymond | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Tyler Raymond | R. L. Polk Co. | Image pg. A38 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | TYLER RAYMOND | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Tyler Raymond | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Tyler Raymond | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Ranney Chas L | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Ranney Chas L | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Gillen Owen G | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Fischer John J | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Fischer John J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Gillen Owen G | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Hennessev Emma Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Fischer John J | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | FISCHER John W crib tndr h | Polk-Clement Directory Co., Publishers | Image pg. A311 |

**319 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Mosley Mozell | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Mosley Mozell | R. L. Polk Co., Publishers | Image pg. A34 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A38 |
| | Vacant | R. L. Polk Co. | Image pg. A38 |
| | Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | SIMMONS LUCILLE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | SIMMONS LUCILLE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | UNDERWOOD ANNIE R MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Goodwin Luberthia | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Jones Robt | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | rear No Return | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Pinkard Eug | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | McCants Steph | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Mott Nathl | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Smith Burl B | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Pozarne Wolf | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Winegar Abe | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Weil Saml | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Mulvaugh Francis H | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Madden Danl | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Pazarne Wolf | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Pazarne Wolf | Polk-Clement Directory Co. Inc., | Image pg. A83 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Rasmussen Anna | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Ball Eliz Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Ball Eliz Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Ball Eliz Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | BALL Eliz wid Alphonse h | Polk-Clement Directory Co., Publishers | Image pg. A312 |
| | Rochow Emma r | Polk-Clement Directory Co., Publishers | Image pg. A313 |

**321 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Gibbs Taneca R iol | Polk City Directories | Image pg. A4 |
| 1992 | Murray Gwenolyn Mrs | R. L. Polk Co., Publishers | Image pg. A21 |
| | Tyson Joann | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Murray Gwenolyn Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| | Corson Dolores | R. L. Polk Co., Publishers | Image pg. A27 |
| | Rear Hunt Rosa L Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Murray Gordon | R. L. Polk Co., Publishers | Image pg. A34 |
| | Rear Hunt Rosa L Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| | Murray Clement | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Murray Clement | R. L. Polk Co. | Image pg. A38 |
| | Motley Sherman | R. L. Polk Co. | Image pg. A38 |
| | Rear Hunt Rose Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | MURRAY CLEMENT | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | SMITH AMANDA | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | CAMPBELL MAEZETTA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | HUNT WM E | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | rear Hunt Wm E | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Murray Clement | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Hunt Wm E | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Murray Clement | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | rear Guy Nathl | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Thurn Kath R mlnr | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Yaeger Edwin W | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Ditcher Dana F | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear Graf Theo J | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Graf Research Organization | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Ulrich Ella A | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Ditcher Dana F | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Graf Theo J | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Thurn Kath R mlnr | Polk-Clement Directory Co. Inc., | Image pg. A76 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Thurn Kath mlnr | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Ulrich Ella A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Parco Vincent | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Graf Theo J | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Thurn Kath | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Graf Theo J | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Thurn Edw R | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | rear Graf Theo J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Thurn Katho dresses | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Thurn Edw R | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Howe Jas J | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | HOWE Jas F clk h rear | Polk-Clement Directory Co., Publishers | Image pg. A314 |
| | Rung Rose r | Polk-Clement Directory Co., Publishers | Image pg. A315 |
| | Thurn Edwv R aud Lafayette Bond & Mortgage Co | Polk-Clement Directory Co., Publishers | Image pg. A316 |
| | h | Polk-Clement Directory Co., Publishers | Image pg. A316 |
| | Thurn Kathryn mlnr r | Polk-Clement Directory Co., Publishers | Image pg. A316 |

**322 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Clark Chas A | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Yelverton Eunice L Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Yelverton Eunice L Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| | Daniels Helen S Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Yelvoton Eunice L Mrs | R. L. Polk Co. | Image pg. A38 |
| | Daniels Helen S Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | YELVERTON EUNICE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | DANIELS HELEN S MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Yelverton Eunice Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Roosevelt Jas R | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Yelverton Sinvwell | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Daniels Willie | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Yelyerton Sinuwell | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Daniels Wm | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Schwabl Herman N | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Dill Amelia M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Dill Amelia M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Dill Otto F | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Dill Otto F | Polk-Clement Directory Co. Inc. | Image pg. A97 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Dill Edith L mus tchr | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Dill Otto F | Polk-Clement Directory Co. Inc., | Image pg. A105 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A105 |

**325 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | 1 Not Verified | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Rice Gladys Mrs | R. L. Polk Co., Publishers | Image pg. A21 |
| | Coppoch Linda | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Rice Gladys Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| | Banks Alberta Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Rice Christopher | R. L. Polk Co., Publishers | Image pg. A34 |
| | Banks Jessie Jr | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Rice Roofing & Sheet Metal Service | R. L. Polk Co. | Image pg. A38 |
| | Rice Christopher Banks Jessie Jr | R. L. Polk Co. | Image pg. A38 |
| 1970 | RICE ROOFING & SHEET METAL SERVICE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | RICE CHRIS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | MOTLEY ALBERTA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | BANKS MATTIE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Rice Roofing & Sht Mtl Serv | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Rice Chris | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Thornton Frank N | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Rice Christopher contr | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Weigand Matilda | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Robinson Elsie | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Weigand Lena | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Reger Robt A | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Williams Robt E | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Weigand Lena | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Weigand Lena | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Williams Robt E | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Krueger Aug | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Goehde Herbert E | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Krueger Aug E O | Polk-Clement Directory Co. Inc., | Image pg. A105 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Truell Arth W | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Bowen Geo J acct h | Polk-Clement Directory Co., Publishers | Image pg. A317 |
| | BOWEN Nellie A dept prin r | Polk-Clement Directory Co., Publishers | Image pg. A318 |
| | Krueger Aug toolmkr h | Polk-Clement Directory Co., Publishers | Image pg. A319 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A4 |
| 2001 | Mc Millan Samuel G | EQUIFAX Polk City Directory | Image pg. A10 |
| | McMillian Sherman D | EQUIFAX Polk City Directory | Image pg. A10 |
| | Not Verified | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Mc Millan Geo L | R. L. Polk Co., Publishers | Image pg. A21 |
| | Mc Millan Sherman | R. L. Polk Co., Publishers | Image pg. A21 |
| | Munn Tyronica | R. L. Polk Co., Publishers | Image pg. A21 |
| | Kimble Demetrius A | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Mc Millan Geo L | R. L. Polk Co., Publishers | Image pg. A27 |
| | Richardson Richd | R. L. Polk Co., Publishers | Image pg. A27 |
| | Sharps Janie | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Mc Millan Geo L | R. L. Polk Co., Publishers | Image pg. A34 |
| | Mc Kinney Jeanette | R. L. Polk Co., Publishers | Image pg. A34 |
| | Moore Arnold | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Mc Millan Geo L | R. L. Polk Co. | Image pg. A38 |
| | Johnson Willie Mrs | R. L. Polk Co. | Image pg. A38 |
| | Rear Lytch Estelle Mrs | R. L. Polk Co. | Image pg. A38 |
| | Andrews Herman | R. L. Polk Co. | Image pg. A38 |
| 1970 | MC MILLAN GEO L | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | JOHNSON WILLIE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | LYTCH ESTELLE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | DAVIS ROBT | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | McMillam Geo L | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Johnson Willie Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | rear Lytch Estelle | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Faulk Georgia Mrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Colkey John | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Campbell Dorothy M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Trautman Bertram F | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Moebius John E | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear Tyler Myrta L | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Randall Wm | Polk-Clement Directory Co. Inc., | Image pg. A76 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Quinlan John P | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Moebius John E | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Tyler Myrta L | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Moebius Caroline Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Moebius John E | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Tyler Myrta L | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Moebius Caroline Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Moebius John E | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Tyler Edw H | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Moebius Chas M | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Moebius John E | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | rear Tyler Edwin | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Linldelow Lillian Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Moebius Chas | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Dane Cecelia | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Tyler Edwin | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Dane Elmer L phys | Polk-Clement Directory Co., Publishers | Image pg. A320 |
| | Dane H Rebecca asst librarian Grosvenor Library r | Polk-Clement Directory Co., Publishers | Image pg. A320 |
| | Dane Wm E r | Polk-Clement Directory Co., Publishers | Image pg. A320 |
| | Lendelow Lillian Mrs r | Polk-Clement Directory Co., Publishers | Image pg. A321 |
| | Moebius Chas M carp h | Polk-Clement Directory Co., Publishers | Image pg. A322 |
| | Moebius Chester driver r | Polk-Clement Directory Co., Publishers | Image pg. A322 |
| | TYLER Edw H lndymn r rear | Polk-Clement Directory Co., Publishers | Image pg. A323 |
| | TYLER Myrtle L r rear | Polk-Clement Directory Co., Publishers | Image pg. A324 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A38 |
| | Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | COOPER SHIRLEY N MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | MC LEAN RUDOLPH A | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Williams Nathaniel | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Payne Lillian Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Davis Manasus | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Polk Lucille J | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Johnson John | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Meredith Legertha | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Garvin Artis | Polk-Clement Directory Co. Inc., | Image pg. A67 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Jones Jas | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Duggan Michl J | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Radtke Henry F | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Streicher Frank C slsmn S J Shulman r | Polk-Clement Directory Co., Publishers | Image pg. A116 |

**329 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Robinson Gloria L | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Robinson | R. L. Polk Co. | Image pg. A38 |
| | Clora L | R. L. Polk Co. | Image pg. A38 |
| 1970 | JENNINGS SAM | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Hampton Lilton | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Bounds Ruth Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Evans Arth H | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | No return | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Haas Edw G lawn cases | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Feist Leopold | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Haas Edw G lawn vases | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Kamphey Howard | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Fox Kath | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Haas Edw G lawn vases | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Haas Edw G lawn vases | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Thompson Carl S | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Haas Edw | Polk-Clement Directory Co. Inc., | Image pg. A105 |

**339 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Lipira Jos A | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Lipira Jos A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1935 | Neill Jas J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Wilhelmina wid John F h | Polk-Clement Directory Co., Publishers | Image pg. A325 |
| | Stouten John B sec treas Lewis Grain Corp h 36 | Polk-Clement Directory Co., Publishers | Image pg. A325 |

**340 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A76 |

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**362 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Ball Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Haug Geo driver h | Polk-Clement Directory Co., Publishers | Image pg. A327 |
| | BALL Wm lab r | Polk-Clement Directory Co., Publishers | Image pg. A326 |
| | Geo J archt r | Polk-Clement Directory Co., Publishers | Image pg. A327 |
| | BALL Marie C r | Polk-Clement Directory Co., Publishers | Image pg. A326 |
| | BALL Marie wid Jos h | Polk-Clement Directory Co., Publishers | Image pg. A326 |

**366 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | DUBOSE JESSIE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Joshua Ellis | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Lewis Andrew | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | rear Adams John | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | rear Shorter Albert | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Langston Hattie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Barnswell Sylvester | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Beasley Jerry | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Mullins Lilie B | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Angston Wesley | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Beasley Jerry | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear Bain John | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Klump Justine K Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Friar Chester R | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Albright Wm F | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Klump Justine K Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Friar Chester R | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Glowihski Edwin W | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Klump Geo C | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Friar Chester R | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Phelan John A | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Klump Geo C | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Friar Chester R | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | rear Phelan John A | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Fuller Velina drsmkr | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Lynch Louise Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Turner Thos C | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | MILLER Philip T bldg contr | Polk-Clement Directory Co., Publishers | Image pg. A328 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Rebhan Oscar E formn h | Polk-Clement Directory Co., Publishers | Image pg. A329 |
| | Riddoch Jas carp h rear | Polk-Clement Directory Co., Publishers | Image pg. A330 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | JOINT APPRENTICESHIP PROGRAM WHRS DEFENSE LEAGUE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | STATE EMP OFC | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Midtown Used Car Lot | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Frontier Oil Refining Co Oil Burner Div | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Frontier Oil Refining Co Oil Burner Div whse | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Frontier Oil Refining Corp Engineering Div whse | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Frontier Engineering Corp whse | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Frontier Engineering Corp whse | Polk-Clement Directory Co. Inc., | Image pg. A90 |

**368 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant 2 Hses | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Hagen Deborah | R. L. Polk Co., Publishers | Image pg. A34 |
| | Stokes Harry L | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Dalka Cecelia | R. L. Polk Co. | Image pg. A38 |
| | Bell Frank | R. L. Polk Co. | Image pg. A38 |
| 1970 | DALKL CECELIA O | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | ALBENASI CHARLES J | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Albenasi Chas J | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | George John T | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Albenasi Chas J | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | George John T | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Albenasi Chas J | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Wagner Eug F | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Albenasi Chas J | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Glowinski Edwin | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Hubbell Harry A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Albenasi Chas J | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Albenasi Chas J | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Pfanner Geo J | Polk-Clement Directory Co. Inc., | Image pg. A90 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Albenasi Chas J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Hausknecht Norman | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Minnick Wm C | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Albenasi Chas J | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Albenesi Chas formn h | Polk-Clement Directory Co., Publishers | Image pg. A331 |
| | Neale Wilford D tile str h | Polk-Clement Directory Co., Publishers | Image pg. A332 |

**370 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant 2 Hses | R. L. Polk Co., Publishers | Image pg. A21 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Matthews Autrey | R. L. Polk Co., Publishers | Image pg. A27 |
| | Tullis Rufus | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Matthews Autrey | R. L. Polk Co., Publishers | Image pg. A34 |
| | Merkle Gertrude M Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Matthews Autrey | R. L. Polk Co. | Image pg. A38 |
| | Merkle Gertrude Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | MATTHEW AUTREY | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | MERKLE GERTRUDE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Stanford Wm P | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Matthews Autrey | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | rear Zimnick Ida A Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Salzman Paul G | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Thourling Jean M | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Merkle Gertrude M | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | rear Zimnick Ida A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Merkle Gertrude M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Angus Geo G | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear Zimnick Ida A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Riedhammer Estelle Mrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Riedhammer Matthew M | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Merkle Edw | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Kraus Geo L | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Zimnick Ida A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Riedhammer Matthew M | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Merkle Edw | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Russell Richd | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Mendershauser Anna M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Riedhammer Matthew M | Polk-Clement Directory Co. Inc., | Image pg. A90 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Merkle Edw | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Russell Richd O | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Menders Norman B | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | rear Reinhardt Anna Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Lassle Theo J dental laboratory | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Mentershausen Anna Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Jas W h | Polk-Clement Directory Co., Publishers | Image pg. A333 |
| | BRADLEY Jas L city police h | Polk-Clement Directory Co., Publishers | Image pg. A333 |
| | BRADLEY Jos W jr police r | Polk-Clement Directory Co., Publishers | Image pg. A333 |
| | BRADLEY Kath A cashr r | Polk-Clement Directory Co., Publishers | Image pg. A333 |
| | BRADLEY Marie sisldy Fields r | Polk-Clement Directory Co., Publishers | Image pg. A333 |
| | MALONE Jas J police h rear | Polk-Clement Directory Co., Publishers | Image pg. A334 |
| | BRADLEY Jas L city police h | Polk-Clement Directory Co., Publishers | Image pg. A333 |

## Northampton St

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| Year | Uses | Source |
|---|---|---|
| 2010 | NORTHAMPTON COMMUNICATIONS | EDR Digital Archive |
| | NORTHAMPTON COMMUNICATIONS | EDR Digital Archive |

## NORTHAMPTON ST

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | taxicabs & transportation serv | Polk City Directories | Image pg. A4 |
| | COLD SPRING AUTOMOTIVE | Polk City Directories | Image pg. A4 |
| 2001 | COLD SPRING AUTOMOTIVE REPAIR taxicabs | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Cold Spring Taxi Service | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Northampton Street Coldspring Cab | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Brownies Northampton Garage Inc | R. L. Polk Co., Publishers | Image pg. A34 |
| | auto repr | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Brownies Northampton Garage Inc | R. L. Polk Co. | Image pg. A38 |
| | auto repr | R. L. Polk Co. | Image pg. A38 |
| 1970 | BROWNS NORTHAMPTON STREET GARAGE INC AUTO REPR | R.L. Polk Company, Inc., Publishers | Image pg. A45 |

# FINDINGS

**372 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Hardy Della M Mrs | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Hardy Wm H | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Hardy Wm H | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Hardy Wm H | R. L. Polk Co. | Image pg. A38 |
| 1970 | HARDY WM H | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Mangrum Loretta | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Mex Herman C | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Mex Herman C | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1946 | Hansman Earl G | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Hansman Earl G | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Hansman Chester S | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Hansiiman Chester | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Mc Mae smstrs r | Polk-Clement Directory Co., Publishers | Image pg. A335 |

**373 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Brown Aungela L | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Brown Louis | R. L. Polk Co., Publishers | Image pg. A21 |
| | Brown Timothy A | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Brown Timothy | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Brown Timothy | R. L. Polk Co., Publishers | Image pg. A34 |
| | Corbett Gerald | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A38 |
| | Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | GRANDITS JOSEPH | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Grandits Jos | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Grandits Jos | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Grandits Jos | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Haller Jacob C | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Grandits Jos | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Haller Jacob C | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Heckler Geo | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Hanson Lewis F | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Haller Jacob C | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Fayfield Geo G | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Haller Jacob C | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Fayfield Geo G real est | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Haller Jacob | Polk-Clement Directory Co. Inc., | Image pg. A105 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Fayfield Geo h | Polk-Clement Directory Co., Publishers | Image pg. A336 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Scales Juanita | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | No Return | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Lewis Walter W | R. L. Polk Co., Publishers | Image pg. A34 |
| | Bennett L | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Scales Arth | R. L. Polk Co. | Image pg. A38 |
| | Bennett L | R. L. Polk Co. | Image pg. A38 |
| 1970 | MORRIS HASKEL | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | HENDERSON SMILEY | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Brown Jerry | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Parks Jos C | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Marissitte Creolo | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Mangrum Loretta Mrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Dolan Martin R | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Mongraw Marcella | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Craik Bertha P Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Dietz Wm E | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Thurn Roy J | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Craik Bertha P Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Dietz Wm E | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Lowe Blanche Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Craik Bertha Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Kiehl Leslie | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Zanger Edw O | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Neidel Curt | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | rear Lowe Blanche Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Car Denter Wm C | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Reichlin Frank T | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Karlsen Harold | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Drayer Emerson carp h | Polk-Clement Directory Co., Publishers | Image pg. A337 |
| | Vanderbush Frank B elk r | Polk-Clement Directory Co., Publishers | Image pg. A338 |
| | Vanderbush Wm chauf Walbridge & Co h | Polk-Clement Directory Co., Publishers | Image pg. A338 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A4 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | 1 Lowe Rose A | EQUIFAX Polk City Directory | Image pg. A10 |
| | Lowe Karen D | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Lowe Karen | R. L. Polk Co., Publishers | Image pg. A21 |
| | Lowe Walter B | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Lowe Karen | R. L. Polk Co., Publishers | Image pg. A27 |
| | Lowe Walter | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Lowe Karen | R. L. Polk Co., Publishers | Image pg. A34 |
| | Lowe Walter | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Lowe Walter B | R. L. Polk Co. | Image pg. A38 |
| | Thomas Julia | R. L. Polk Co. | Image pg. A38 |
| 1970 | LOWE WALTER B | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | THOMAS JULIA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Lowe Walter B | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Pugh Florence Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Lowe Walter B | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Bailey Chas H | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Lowe Walter B | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Bailey Chas H | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Miller Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Kieffer Anthony E | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Miller Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Kieffer Anthony E | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Miller Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Kieffer Anthony E | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Miller Mary A Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Miller Mary M Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Kieffer Anthony E | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Miller Mary M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Kieffer Anthony E | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Miller Henry M | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | MILLER Henry L statement elk Community South Side Nati Bank r | Polk-Clement Directory Co., Publishers | Image pg. A339 |
| | Miller Margt r | Polk-Clement Directory Co., Publishers | Image pg. A340 |
| | MILLER Mary F r | Polk-Clement Directory Co., Publishers | Image pg. A341 |
| | Mary M wid Henry M r | Polk-Clement Directory Co., Publishers | Image pg. A341 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Gonzalez Leonard M | EQUIFAX Polk City Directory | Image pg. A10 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Gonzalez Charlotte D | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Reeves Freddie E | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Lamar Fannie | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Higgs | R. L. Polk Co. | Image pg. A38 |
| | Mosley Geraldine Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | SINGLETARY MARION MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Jones Geraldine | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Tanner Wm | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Armstrong Lucy W Mrs | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Jones Jas | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Schraft Florence M | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Schraft Frank W | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Schraft Frank W | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Schraft Florence M | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Schraft Frank W | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Schraft Florence M | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Bazin Paul A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Gebensleben Carl | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Brusky Helen Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Schraft Florence M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Schraft Walter A oil burners | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Gebensleben Carl | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Schraft Eva Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Tomosett Walter M | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | CAMPBELL Augustus A body bldr Buffalo Body Corp h | Polk-Clement Directory Co., Publishers | Image pg. A342 |
| | CAMPBELL Cath wid Augustus h | Polk-Clement Directory Co., Publishers | Image pg. A342 |
| | CAMPBELL Mary r | Polk-Clement Directory Co., Publishers | Image pg. A343 |
| | CAMPBELL Theo welder r | Polk-Clement Directory Co., Publishers | Image pg. A344 |
| | Schraft Eva wid Fred h | Polk-Clement Directory Co., Publishers | Image pg. A345 |
| | Schraft Walter A electn r | Polk-Clement Directory Co., Publishers | Image pg. A345 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Not Verified | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Aja Genaro | R. L. Polk Co., Publishers | Image pg. A34 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Aja Genaro | R. L. Polk Co. | Image pg. A38 |
| 1970 | AJA GENARO | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Aja Genaro | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Aja Genaro | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Aja Genaro | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Lyth Byron F jr | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Amlinger Roland J | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Muckenhern Frank J | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Riter Warren C | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Keller Rudolbh | Polk-Clement Directory Co. Inc., | Image pg. A105 |

**379 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Merkle Gertrude M | R. L. Polk Co., Inc., Publishers | Image pg. A53 |

**380 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Fisher Calieb J | Polk City Directories | Image pg. A4 |
| | Fisher Hazel B | Polk City Directories | Image pg. A4 |
| 2001 | Fisher Hazel | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Fisher Hazel B Mrs | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Fisher Hazel Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Fisher Hazel Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Fisher Hazel Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | FISHER HAZEL MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Fisher Hazel Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Fisher Hazel | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Kraengel Aug E | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Kraengel Aug E | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Kraengel Aug E | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Kraengel Aug E | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Kraengel Aug E | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Kraengel Aug E | Polk-Clement Directory Co. Inc., | Image pg. A105 |

**382 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Hansman Earl G | Polk-Clement Directory Co. Inc., | Image pg. A76 |

# FINDINGS

**387 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Patterson Annie M | Polk City Directories | Image pg. A4 |
| | Patterson Leon Z | Polk City Directories | Image pg. A4 |
| 2001 | Harrington Glenda C | EQUIFAX Polk City Directory | Image pg. A10 |
| | Pyles Andrew | EQUIFAX Polk City Directory | Image pg. A10 |
| | Lumpkin Mae | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Lumpkin Napoleon | R. L. Polk Co., Publishers | Image pg. A21 |
| | Pyles Andrew | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Lumpkin Napoleon | R. L. Polk Co., Publishers | Image pg. A27 |
| | Pyles Andrew | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Lumpkin Napoleon | R. L. Polk Co., Publishers | Image pg. A34 |
| | Pyles Andrew | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Lumpkin Napoleon | R. L. Polk Co. | Image pg. A38 |
| | Pyles Andrew | R. L. Polk Co. | Image pg. A38 |
| 1970 | LUMPKIN NAPOLEON | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Nesbitt Barbara | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Lumpkin Napoleon | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Lumpkin Napoleon | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Stith Richd | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Shanahan Wm J | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Griffin Donald L | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Kushman Louis Mrs | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Griffin Donald L | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Kushman Michl | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Hughes Jas M | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Spring Geo C | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Duge Winnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Spring Geo C | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Duge Chas | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Spring Geo C | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Duge Chas | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Spring Geo | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Spring Geo C litho h | Polk-Clement Directory Co., Publishers | Image pg. A346 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A4 |
| 2001 | Mc Gee V | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Mc Gee Verna E Mrs | R. L. Polk Co., Publishers | Image pg. A21 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Beasley Irene Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Beasley Irene Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Beasley Irene Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | BEASLEY IRENE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Beasley Jerry | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Guidi Frank | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Guidi Frank | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Guidi Frank | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Guidi Frank | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Guidi Frank | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Guidi Frank | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Guidi Frank | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Burkard Albert brkmn r | Polk-Clement Directory Co., Publishers | Image pg. A347 |
| | Burkard Eliz wid Edw h | Polk-Clement Directory Co., Publishers | Image pg. A347 |
| | Burkard Geo E lab r | Polk-Clement Directory Co., Publishers | Image pg. A347 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | 0 Grant Katherine | Polk City Directories | Image pg. A4 |
| 2001 | Marshall Viola | EQUIFAX Polk City Directory | Image pg. A10 |
| | Marshall Cardozia C Jr | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Marshall Cardozia | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Marshall Cardozia | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Marshall Cardozia | R. L. Polk Co., Publishers | Image pg. A34 |
| | Marshall Thelma | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Marshall Cardozia D | R. L. Polk Co. | Image pg. A38 |
| | Vacant | R. L. Polk Co. | Image pg. A38 |
| 1970 | MARSHALL CARDOZIA | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | HOLLAND LINDA V | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Marshall Cardozia | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Marshall Cardozia | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Barber Correllis | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Marshall Cardozia | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear Barber Arth | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Evans Cath M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Glasgow Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Heckler Geo | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Evans Cath M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Glasgow Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Stearns Chas A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Evans Fred | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Evans Mary Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Lang Carl | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Evans Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Evans Fred | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | MARSHALL Wm slsmn h | Polk-Clement Directory Co., Publishers | Image pg. A350 |
| | EVANS Fredk carp r | Polk-Clement Directory Co., Publishers | Image pg. A348 |
| | EVANS Mary wid John h | Polk-Clement Directory Co., Publishers | Image pg. A349 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Harris Dorothy Mrs | R. L. Polk Co. | Image pg. A38 |
| | Vacant | R. L. Polk Co. | Image pg. A38 |
| | Hart Charles P | R. L. Polk Co. | Image pg. A38 |
| 1970 | HARRIS DOROTHY MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | DAVIS HENRY | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | HART CHARLES P | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | MOORE CHARLIE | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Harris Dorothy Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Moore Charlie | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | rear Hart Chas P | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Harris Vannie T | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Harris Geo T | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Rector Elaine | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Harris Vannie T | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Steen Wm | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | rear McCloud Chester | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Pellnat Otto A | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Teresi Jos V | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Hawkins Russell W | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Zaffram Peter | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Pratico Lawrence F | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Pellnat Otto A | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Zaffram Louis | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Boswell Jerome C | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Manfreda Vito | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Barnes Walter L | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Ackerman Alberta M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Liebig Adolph | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Kennedy Francis H | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Manfreda Vito | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | rear Ackerman Alberta M Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Girous Frank | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Ressel Frank | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Garrett Margt elk h rear | Polk-Clement Directory Co., Publishers | Image pg. A351 |
| | Kimball Cleaver H ship elk Intl Harv Co of Am r | Polk-Clement Directory Co., Publishers | Image pg. A352 |
| | Veiders Alphonse lab h rear | Polk-Clement Directory Co., Publishers | Image pg. A353 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Davis Marjorle | Polk City Directories | Image pg. A4 |
| | Davis Lucius C | Polk City Directories | Image pg. A4 |
| 2001 | Davis Marjorie | EQUIFAX Polk City Directory | Image pg. A10 |
| | Davis Lucius C | EQUIFAX Polk City Directory | Image pg. A10 |
| | Thomas I | EQUIFAX Polk City Directory | Image pg. A10 |
| | 2 Not Verified 2 Apts | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Davis Marjorie Mrs | R. L. Polk Co., Publishers | Image pg. A21 |
| | Mc Collum Donna | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Mc Cullam Donna Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| | Davis Marjorie Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Gabriel Chester A | R. L. Polk Co., Publishers | Image pg. A34 |
| | Davis Maijorie Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Gabriel Chester A | R. L. Polk Co. | Image pg. A38 |
| | Davis Marjorie Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | DAVIS MARJORIE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | GABRIEL CHESTER A | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Gabriel Chester A | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Davis Lucius C | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Gabriel Chester | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Davis Lucoius | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Gabriel Chester | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Davis Lucious | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Besser Jos J | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Trapper Henry J | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Besser Jos J | Polk-Clement Directory Co. Inc., | Image pg. A83 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Trapper Henry | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Gombert Frank P | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Goodman Jacob bldg contr | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Gombert Frank P | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Schmitt Alex | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Philli Dpe Fred J Dntr | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Gombert Frank | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Lalloz Adolph | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Gittere Jos pntr r | Polk-Clement Directory Co., Publishers | Image pg. A354 |
| | Gombert Frank D metalwkr r | Polk-Clement Directory Co., Publishers | Image pg. A355 |
| | WILSON Clarence W pntr h | Polk-Clement Directory Co., Publishers | Image pg. A356 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A105 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A4 |
| 2001 | Johnson C | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Haynes James E | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Daniels Reginald | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Rummel Eliz | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Rummel Eliz | R. L. Polk Co. | Image pg. A38 |
| 1970 | RUMMEL ELIZ | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Rummel Eliz | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Rummel Betty | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Rummel Betty | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Rummell Effie E | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Rummell Effie | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Rummel Eva | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Rummel Eva | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Rummel Kath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Rummel Effie E clk Intl By Co r | Polk-Clement Directory Co., Publishers | Image pg. A357 |
| | Rummel Kath wid Geo h | Polk-Clement Directory Co., Publishers | Image pg. A357 |
| | RUMMELL Eliz elev opr r | Polk-Clement Directory Co., Publishers | Image pg. A358 |

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**396 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Terry John | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Lewis Geo R Jr | R. L. Polk Co. | Image pg. A38 |
| 1970 | LEWIS GEO R JR | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Lewis Geo R | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Moeckel Edmund J Rev | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | McKnight Henry Rev | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Bosch Herbert A Rev | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Bosch Herbert A Rev | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Bosch Herbert A Rev | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Bosch Herbert A Rev | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Bosch Herbert A Rev | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Drach Wm C Rev pastor Concordia Evang Luth Ch h | Polk-Clement Directory Co., Publishers | Image pg. A359 |
| | Reiss Mary housekpr | Polk-Clement Directory Co., Publishers | Image pg. A360 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1930 | 398 404 Concordia Evang Lutfeian | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | C Drach pastor | Polk-Clement Directory Co., Publishers | Image pg. A361 |

**399 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Grier Andrew M ie A | Polk City Directories | Image pg. A4 |
| | Grier Brenda B | Polk City Directories | Image pg. A4 |
| 1992 | Nix Murphy | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Nix Murphy Mrs | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Nix Charlene V Mrs | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Nix Charlene V Mrs | R. L. Polk Co. | Image pg. A38 |
| 1970 | NIX MURPHY | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Nix Murphy | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Nix Murphy | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Nix Murphy | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Davis Allen L | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Davis Allen L | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Shreder Julius A | Polk-Clement Directory Co. Inc., | Image pg. A90 |

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Shreder Julius A | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Shrader Julius A O | Polk-Clement Directory Co. Inc., | Image pg. A105 |

## Northampton St

**400 Northampton St**

| Year | Uses | Source |
|---|---|---|
| 2014 | MOUNT MRIA MSSIONARY BAPTST CH | EDR Digital Archive |
| | MOUNT MRIA MSSIONARY BAPTST CH | EDR Digital Archive |
| 2010 | MOUNT MRIA MSSIONARY BAPTST CH | EDR Digital Archive |
| | MOUNT MRIA MSSIONARY BAPTST CH | EDR Digital Archive |

## NORTHAMPTON ST

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | churches | Polk City Directories | Image pg. A4 |
| | MT MORIAH BAPTIST CHURCH | Polk City Directories | Image pg. A4 |
| 2001 | MOUNT CALVARY HOLY CHURCH | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Concordia Evangelical Lutheran Church | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Concordia Evangelical Lutheran Church | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Church | R. L. Polk Co., Publishers | Image pg. A34 |
| | Concordia Evangelical Lutheran | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Church | R. L. Polk Co. | Image pg. A38 |
| | Concordia Evangelical Lutheran | R. L. Polk Co. | Image pg. A38 |
| 1970 | CONCORDIA EVANGELICAL | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | LUTHERAN CHURCH | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Corcordia Evangelical Luth Ch | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1955 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc. | Image pg. A97 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Hunter Wardell | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Brown L H | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A38 |
| | Hunter Wm | R. L. Polk Co. | Image pg. A38 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | WILLIAMS BERTHA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | LEE VIOLA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Robinson Ethel Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Lee Viola Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Moore Leslie | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Rushton Cecil | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Kleindinst Louisa Mrs | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Stright Wm G | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Kleindinst Louisa Mrs | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Stright Wm G | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Kleindinst Louisa Mrs | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Astfalk John M | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Kleindinst Louisa Mrs | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Astfalk John M | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Kleindinst Louisa Mrs | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Astfalk John M | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Astfalk John M lieut police D L & W R R r | Polk-Clement Directory Co., Publishers | Image pg. A362 |

**402 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A61 |

**404 NORTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Concordia Evangelical Lutheran Church | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | 398 404 Concordia Evang Lutfeian | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Church | Polk-Clement Directory Co. Inc., | Image pg. A105 |

## Northampton St

**405 Northampton St**

| Year | Uses | Source |
|---|---|---|
| 2010 | RAMONA WATSON | EDR Digital Archive |
| | RAMONA WATSON | EDR Digital Archive |

# FINDINGS

## NORTHAMPTON ST

### 405 NORTHAMPTON ST

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Battle Luscenor J | Polk City Directories | Image pg. A4 |
| | Battle Duane 2f | Polk City Directories | Image pg. A4 |
| 2001 | Franklin Mianna | EQUIFAX Polk City Directory | Image pg. A10 |
| | Franklin Eli J | EQUIFAX Polk City Directory | Image pg. A10 |
| 1992 | Browning Mark | R. L. Polk Co., Publishers | Image pg. A21 |
| 1985 | Noble Willis | R. L. Polk Co., Publishers | Image pg. A27 |
| 1980 | Noble Willis | R. L. Polk Co., Publishers | Image pg. A34 |
| 1975 | Noble Willis | R. L. Polk Co. | Image pg. A38 |
| | Whoozer Andrew J | R. L. Polk Co. | Image pg. A38 |
| 1970 | NOBLE WILLIS | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| | WHOOZER ANDREW J | R.L. Polk Company, Inc., Publishers | Image pg. A45 |
| 1964 | Noble Willis | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| | Whoozer Andrew J | R. L. Polk Co., Inc., Publishers | Image pg. A53 |
| 1960 | Edwards Floyd J | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | James Edw W | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Edwards Floyd | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Brotz Henry J | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Froelich Fred W | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Brotz Henry J | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Froelich Fredk W | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Brotz Henry J | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Froelich Fredk W | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Brotz Henry J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Froelich Fredk W | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Brotz Henry J | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Milks Harland F | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Brotz Gladys C sten Goold Bros r | Polk-Clement Directory Co., Publishers | Image pg. A363 |
| | Brotz Henry J slsmn h | Polk-Clement Directory Co., Publishers | Image pg. A363 |
| | MORGAN John slsmn r | Polk-Clement Directory Co., Publishers | Image pg. A364 |
| | Spang Martha h | Polk-Clement Directory Co., Publishers | Image pg. A365 |

### 406 NORTHAMPTON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Green Ernest T | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Manuel Harry | Polk-Clement Directory Co. Inc., | Image pg. A67 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Sciolino Saml C taxi | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Mislin Lester G | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Sciolino Saml C | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Mislin Lester G | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Maher Raymond A | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Cline Walter W bldg materials | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Riedhammer Matthew | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | DeYot Leslie J | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Walter Geo H | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Strobel Martin R | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Schlageter John W slsmn h | Polk-Clement Directory Co., Publishers | Image pg. A368 |
| | LIVINGSTON Mary F wid Angus nurse | Polk-Clement Directory Co., Publishers | Image pg. A366 |
| | Nauert Lewis W printer Buff Exp h | Polk-Clement Directory Co., Publishers | Image pg. A367 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| | Jones Waverly | Polk-Clement Directory Co. Inc., | Image pg. A61 |
| 1955 | Kieffer Edw P | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| | Italiano Seraphino E | Polk-Clement Directory Co. Inc., | Image pg. A67 |
| 1950 | Kieffer Edw P | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| | Italiano Seraphino E | Polk-Clement Directory Co. Inc., | Image pg. A76 |
| 1946 | Italiano Seraphino | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| | Kieffer Edw P | Polk-Clement Directory Co. Inc., | Image pg. A83 |
| 1940 | Kieffer Edw P | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| | Doody Geo J | Polk-Clement Directory Co. Inc., | Image pg. A90 |
| 1935 | Kieffer Edw P | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| | Crull Edw P | Polk-Clement Directory Co. Inc. | Image pg. A97 |
| 1930 | Kieffer Edw P | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| | Seehover Harry T | Polk-Clement Directory Co. Inc., | Image pg. A105 |
| 1925 | Raymond E drftsmn r | Polk-Clement Directory Co., Publishers | Image pg. A370 |
| | WALTHER Rudolph H meat ctr h | Polk-Clement Directory Co., Publishers | Image pg. A370 |
| | SCHMITT Loretta sten r | Polk-Clement Directory Co., Publishers | Image pg. A369 |
| | WALTHER Oscar rll Ashton pl | Polk-Clement Directory Co., Publishers | Image pg. A370 |

# FINDINGS

## NORTHAMPTOON ST

### 310 NORTHAMPTOON ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Osborn Delos mach h rear | Polk-Clement Directory Co., Publishers | Image pg. A371 |

## NORTHUM ST

### 326 NORTHUM ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Ullmer Clara H elk Robertson C E Co h | Polk-Clement Directory Co., Publishers | Image pg. A372 |
| | Ullmer Geo carp J Feist & Sons Co h | Polk-Clement Directory Co., Publishers | Image pg. A372 |

### 336 NORTHUM ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Christine Madeline A sten John J Brown r | Polk-Clement Directory Co., Publishers | Image pg. A373 |

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### 375 NORTHUM ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Vesper Cecil br mgr Gt A & P Tea Co r | Polk-Clement Directory Co., Publishers | Image pg. A374 |

### 382 NORTHUM ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Lau Wilhelmina wid Henry H r | Polk-Clement Directory Co., Publishers | Image pg. A375 |
| | Wm prsmn Niagara Lithog Co h | Polk-Clement Directory Co., Publishers | Image pg. A375 |

## SOUTHAMP ST

### 242 SOUTHAMP ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Moffat Dorothy elk Aetna Life Ins Co r | Polk-Clement Directory Co., Publishers | Image pg. A376 |

### 255 SOUTHAMP ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | CRANE Olive M slsmn Flint & Kent r | Polk-Clement Directory Co., Publishers | Image pg. A377 |

### 271 SOUTHAMP ST

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | WILHELM Ross S Porter & Wilhelm h | Polk-Clement Directory Co., Publishers | Image pg. A378 |

# FINDINGS

## SOUTHAMPTON

### 255 SOUTHAMPTON

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | GERLACH Mildred G chf opr N Y Tel Co r | Polk-Clement Directory Co., Publishers | Image pg. A379 |

## SOUTHAMPTON ST

### 240 SOUTHAMPTON ST

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Jackson L | Polk City Directories | Image pg. A5 |
| | Jackson Kevin G Sr | Polk City Directories | Image pg. A5 |
| 2001 | Johnson R | EQUIFAX Polk City Directory | Image pg. A11 |
| 1998 | Cameron Robert | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | Watts Willie | R. L. Polk Co., Publishers | Image pg. A22 |
| | Cammeron Robt | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Jackson Antonio R | R. L. Polk Co., Publishers | Image pg. A28 |
| | Watts Willie | R. L. Polk Co., Publishers | Image pg. A28 |
| 1980 | Watts Willie | R. L. Polk Co., Publishers | Image pg. A35 |
| | Jackson Kevin | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Watts Willie | R. L. Polk Co. | Image pg. A42 |
| | Cade Gaston | R. L. Polk Co. | Image pg. A42 |
| 1970 | KEY LESLIE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | CADE GASTON | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Key Leslie | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Bryant Dora Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Brown Elijah | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Watts Wm | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Brown Elijah | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| | Watts Wm | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| 1950 | McDonald Bernard | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Bunny Lillian A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Berg Carl W | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Bunny Wm H | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Berg Carl W | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Bunny Wm H | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Bush Edw H | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | MAlolke Kath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Nightingale Svdnley A | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | FOX Charlotte tchr r | Polk-Clement Directory Co., Publishers | Image pg. A380 |

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**241 SOUTHAMPTON ST**

| *Year* | *Uses* | *Source* | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A42 |
| | Vacant | R. L. Polk Co. | Image pg. A42 |
| 1970 | HURD LOUIS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | ROOS ESTHER | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | MILTON ISSAC J | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Schultz Claire E Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | rear Marr Loretta Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Stewart Chas W | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Schultz Claire E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | rear Marr Loretta A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Stewart Chas W | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| | Schulz Claire E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| | rear Witakowskl Wm | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| | Marr Loretta Mrs | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| 1950 | Schultz Claire E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Witakowski Wm | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Marr Loretta Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Roos Esther G Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Roos Esther G Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Schultz Claire E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Marr Emery M | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Chubbuck Bertha L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Kugler Robt G | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Marr Emery M | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Ladd Geo D | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Kugler Robt G | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Schultz Emil W | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Roos Esther Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | rear Shanahan Marie Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Kugler Robt G | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Schultz Emil | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Churchill Olive M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | CHURCHILL Marcella A h rear | Polk-Clement Directory Co., Publishers | Image pg. A381 |
| | Kugler Robt mach h | Polk-Clement Directory Co., Publishers | Image pg. A382 |
| | Roberts Clara H sten H P Brainard r | Polk-Clement Directory Co., Publishers | Image pg. A383 |
| | Clarence W mach h rear | Polk-Clement Directory Co., Publishers | Image pg. A383 |
| | SCHULTZ Emil musician r | Polk-Clement Directory Co., Publishers | Image pg. A384 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Jackson Joe N E | Polk City Directories | Image pg. A5 |
| 2001 | Jackson Joe N | EQUIFAX Polk City Directory | Image pg. A11 |
| 1998 | Jackson Joe N I | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | Jackson Mary Mrs | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Jackson Mary Mrs | R. L. Polk Co., Publishers | Image pg. A28 |
| 1980 | Jackson Mary Mrs | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Jackson Joseph N | R. L. Polk Co. | Image pg. A42 |
| 1970 | JACKSON JOSEPH N | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Reubelt Barbara Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Reubelt Jos F | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Reubelt Jos F | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| 1950 | Reubelt Jos F | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Reubelt Jos F | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Dibble Geo W | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Mueller Otto | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | OBrien Frank P | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Moffat Eliz D elk r | Polk-Clement Directory Co., Publishers | Image pg. A385 |

**245 SOUTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A5 |
| 2001 | Muhammad William | EQUIFAX Polk City Directory | Image pg. A11 |
| 1992 | Demps Joe E | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Demps Joe E | R. L. Polk Co., Publishers | Image pg. A28 |
| 1980 | Harding Florence Mrs | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Harding Florence Mrs | R. L. Polk Co. | Image pg. A42 |
| 1970 | HARDING FLORENCE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Harding Croff E | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Harding Croff E | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Monahan Rose Mrs | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| 1950 | Koch John L | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Koch John L | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Koch John L | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Shisler Wm H | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Ssisler Wm H | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Shisler Wm tmstr h | Polk-Clement Directory Co., Publishers | Image pg. A386 |

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**246 SOUTHAMPTON ST**

| *Year* | *Uses* | *Source* | |
|---|---|---|---|
| 2008 | C 2 Carter Jennifer | Polk City Directories | Image pg. A5 |
| 2001 | Robinson G | EQUIFAX Polk City Directory | Image pg. A11 |
| | Alston C | EQUIFAX Polk City Directory | Image pg. A11 |
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A22 |
| | Isaac John | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A28 |
| 1980 | Fields Louise L Mrs | R. L. Polk Co., Publishers | Image pg. A35 |
| | Neal Howard | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Fields Louise Mrs | R. L. Polk Co. | Image pg. A42 |
| | Neal Edna | R. L. Polk Co. | Image pg. A42 |
| 1970 | FIELDS LOUISE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | SCOTT MARILYN C | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | McKinney Fred | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Harvey Frank B | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Anderson Wm | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Johnson Ernest P | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Harpper Arth | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| | Robinson Sarney | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| 1950 | Herman Lawrence | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Loopo Chas | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Christofferson Carl E | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Neppel Harold M | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Anderson Nils E | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Christofferson Carl E | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Christofferson Carl E | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Furry Norman W | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Blesh John H | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Furry Norman W | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Norman F bkpr h | Polk-Clement Directory Co., Publishers | Image pg. A387 |
| | Furry Edw musician r | Polk-Clement Directory Co., Publishers | Image pg. A387 |

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| *Year* | *Uses* | *Source* | |
|---|---|---|---|
| 2008 | Jeter Gavin M | Polk City Directories | Image pg. A5 |
| | Stephens Fannie M | Polk City Directories | Image pg. A5 |
| | Stephens Pamela D | Polk City Directories | Image pg. A5 |
| | Williams Kevin & Pamela D | Polk City Directories | Image pg. A5 |
| 2001 | Stephens Fannie M | EQUIFAX Polk City Directory | Image pg. A11 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1998 | Stephens Fannie M | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | Stevens Kamell Mrs | R. L. Polk Co., Publishers | Image pg. A22 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Stevens Wille | R. L. Polk Co., Publishers | Image pg. A28 |
| | Stephens Willie | R. L. Polk Co., Publishers | Image pg. A28 |
| 1980 | Davis Vina Mrs | R. L. Polk Co., Publishers | Image pg. A35 |
| | Stephens Willie L | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Davis Vina Mrs | R. L. Polk Co. | Image pg. A42 |
| | Stephens Willie M | R. L. Polk Co. | Image pg. A42 |
| 1970 | COLE KEMELL | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | DAVIS VINA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | STEPHENS WILLIE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Bell Jacqueline J | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Kamell Saml | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Davis Nina V Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Davis Marion | Polk-Clement Directory Co. Inc., | Image pg. A71 |
| 1950 | Marshall Jas R | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Stewart Ellsworth | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Marshall Jas R | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | McAllister Owen T | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Canby Wm G | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Amos Raymond R | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Ralyea Leslie L | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Ehmke Olga A Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Litchner Chas | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Springer Perle W | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Ku Ohler Wolfgang | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Mc Ralph H garage h | Polk-Clement Directory Co., Publishers | Image pg. A388 |
| | Messing Anna M florist | Polk-Clement Directory Co., Publishers | Image pg. A389 |
| | Caroline wid Spbpstian r | Polk-Clement Directory Co., Publishers | Image pg. A389 |
| | Moser Christian carp h | Polk-Clement Directory Co., Publishers | Image pg. A390 |
| | MOSER Ida drsmkr r | Polk-Clement Directory Co., Publishers | Image pg. A391 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Wilhile Julia J O | Polk City Directories | Image pg. A5 |
| 1998 | Graham Pauline L S I | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Graham Pauline | R. L. Polk Co., Publishers | Image pg. A28 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Lamont Adrima | R. L. Polk Co., Publishers | Image pg. A28 |
| | Newman Robt | R. L. Polk Co., Publishers | Image pg. A28 |
| 1980 | Graham Pauline | R. L. Polk Co., Publishers | Image pg. A35 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A35 |
| | RearBell Carol | R. L. Polk Co., Publishers | Image pg. A35 |
| 1970 | HARRIS LUCIUS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | PEACE WALLACE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Harris Lucius | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Peace Wallace R | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | rear Hemphill Eug | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Jones Otis | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Besso Anna Mrs | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Grams Clarence | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | rear Graziano Angelo B | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Albee Boss | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Besso Anna Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Grams Clarence | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Gonzalez Manuel | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Graziano Angelo B | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Besso Anna Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Kolpack Albert | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Ludwig Andrew G | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Graziano Angelo B | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Besso Anna Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Preston Marion Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Lindquist Donald R | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Besso Anna Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Goldstone Wolff | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Koeppel Elwyn | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Strauss Matilda Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Besso Anina Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Jank John M | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Alcock Crosby W acct h rear | Polk-Clement Directory Co., Publishers | Image pg. A392 |
| | HUEBER Eliz M sten r | Polk-Clement Directory Co., Publishers | Image pg. A393 |
| | HUEBER Emy eng h | Polk-Clement Directory Co., Publishers | Image pg. A393 |
| | HUEBER Henry mach h | Polk-Clement Directory Co., Publishers | Image pg. A393 |
| | HUEBER Henry Jr elk h | Polk-Clement Directory Co., Publishers | Image pg. A393 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Huson Helen F county insp Dept of Charities and Corrections h | Polk-Clement Directory Co., Publishers | Image pg. A394 |
| | STALL Wm sismn Maisel Furn Co r | Polk-Clement Directory Co., Publishers | Image pg. A395 |
| | Stoll Wm formn h rear | Polk-Clement Directory Co., Publishers | Image pg. A396 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Walker Angela | Polk City Directories | Image pg. A5 |
| | Carter Ceuntia | Polk City Directories | Image pg. A5 |
| | Carter Raynetta L | Polk City Directories | Image pg. A5 |
| | Neal Tureicia R F | Polk City Directories | Image pg. A5 |
| 2001 | Kirksey Ophelia | EQUIFAX Polk City Directory | Image pg. A11 |
| | Neal T | EQUIFAX Polk City Directory | Image pg. A11 |
| 1992 | Alexander Angela | R. L. Polk Co., Publishers | Image pg. A22 |
| | Kirksey Wesley | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Harvey Virginia M Mrs | R. L. Polk Co., Publishers | Image pg. A28 |
| | Harvey Allen D | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Harvey Virginia M Mrs Q | R. L. Polk Co., Publishers | Image pg. A35 |
| | Harvey Allen D | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Harvey Virginia M Mrs | R. L. Polk Co. | Image pg. A42 |
| | Kemp Hal | R. L. Polk Co. | Image pg. A42 |
| 1970 | HARVEY VIRGINIA M | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Harvey Virginia | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Senf Julia Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Senf Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Senf Julia Mrs | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Senf Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Senf Julia Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Senf Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Senf John | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Senf Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Senf John | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Senf Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Senf John | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Senf Raymond | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Senf John i | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Senif Raynmond | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | SENF Raymond J lather r | Polk-Clement Directory Co., Publishers | Image pg. A397 |
| | SENF John carp h | Polk-Clement Directory Co., Publishers | Image pg. A397 |

# FINDINGS

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| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Graham Anthony N | R. L. Polk Co., Publishers | Image pg. A22 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Graham Anthony N | R. L. Polk Co., Publishers | Image pg. A29 |
| | Rear Mc Dowell Anthony | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Hoges John | R. L. Polk Co., Publishers | Image pg. A35 |
| | Rear Vacant | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Rear Hodges John | R. L. Polk Co. | Image pg. A42 |
| | Watkins Mattie | R. L. Polk Co. | Image pg. A42 |
| 1970 | LOWTHER MATTIE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | RIVERS JAMES | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | HODGES JOHN | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Lowther Andrew | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | rear Vacant | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Lowther Andrew | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Rivers Jas | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Jones Isaiah | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Lowther Andrew | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Sweetwine Neahmia | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Freund Wm C | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Freund Albert E | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Freund Albert E | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | rear Deuble Edw J | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Freund Albert ED | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Browning Mabel Mrs nurse | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Goehde Herbert | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | BROWNING Mabel nurse r | Polk-Clement Directory Co., Publishers | Image pg. A398 |
| | Freund Albert E bench hd Chas Boller & Sons Co h | Polk-Clement Directory Co., Publishers | Image pg. A399 |
| | Freund Clarence carp r | Polk-Clement Directory Co., Publishers | Image pg. A399 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1950 | Freund Clarence E | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Freund Clarence E | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Linneborn Chas J | Polk-Clement Directory Co. Inc., | Image pg. A93 |

# FINDINGS

**255 SOUTHAMPTON ST**

| *Year* | *Uses* | *Source* | |
|---|---|---|---|
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Foinee | R. L. Polk Co., Publishers | Image pg. A29 |
| | Matthews Pauline Mrs | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Matthews Pauline Mrs | R. L. Polk Co., Publishers | Image pg. A35 |
| | Rear Alexander Claude B | R. L. Polk Co., Publishers | Image pg. A35 |
| | Fryer Danl | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Graham Sylvester W | R. L. Polk Co. | Image pg. A42 |
| | Matthews Pauline Mrs | R. L. Polk Co. | Image pg. A42 |
| | Alexander Claude B | R. L. Polk Co. | Image pg. A42 |
| 1970 | GRAHAM SYLVESTER W | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | MATTHEWS PAULINE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | ALEXANDER CLAUDE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Graham Sylvester W | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Alexander Claude | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Mathews Pauline Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | McDow Matthew | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Williams Taylor | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Alexander Claude | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Logan Lola M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Graham Sylvester W | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Graham Sylvester | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Mathews Pauline Mrs | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | rear Smith Madeline Mrs | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Tomassi Jos | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Antonieth Giordano | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Klein Fredk C | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Tomassi Jos | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Antonietti Giordano | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Klein Fredk C | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Nicholson Frank | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Keller Lucy Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Klein Fredk C | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Klein Fredk C | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Miller Raymond | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | rear Schaefer Wm | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Schoenthaler John D | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Weiler Geo | Polk-Clement Directory Co. Inc., | Image pg. A110 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Schneider Barbera Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | GERLACH Mildred G chf opr N Y Tel Co r | Polk-Clement Directory Co., Publishers | Image pg. A400 |
| | Richd checker h | Polk-Clement Directory Co., Publishers | Image pg. A400 |
| | MYERS Evangeline bkpr r rear | Polk-Clement Directory Co., Publishers | Image pg. A401 |
| | SCHNEIDER Barbara wid Michi h rear | Polk-Clement Directory Co., Publishers | Image pg. A402 |
| | Weiler Geo F carp h | Polk-Clement Directory Co., Publishers | Image pg. A403 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Heard Terrance L | Polk City Directories | Image pg. A5 |
| 2001 | Heard Terrance | EQUIFAX Polk City Directory | Image pg. A11 |
| | Not Verified | EQUIFAX Polk City Directory | Image pg. A11 |
| 1992 | Jackson Cynthia | R. L. Polk Co., Publishers | Image pg. A22 |
| | Sexton Odessa | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Sexton Odessa M Mrs | R. L. Polk Co., Publishers | Image pg. A29 |
| | Garvin Arth | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Garvin Arth | R. L. Polk Co., Publishers | Image pg. A35 |
| | Sexton Odessa M Mrs | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Garvin Artis | R. L. Polk Co. | Image pg. A42 |
| | Jamison James P | R. L. Polk Co. | Image pg. A42 |
| 1970 | GARVIN ARTIS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | SEXTON JAMES | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Carr Audrey | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Sexton Jas | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Sexton Jas | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Sheppeard R J | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Grice Kenneth | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Settle Bernice | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Mitchell Cleveland | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Sexton Jas | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | MacLean Alastair | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Begin Edmund | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Konstabel Aug | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Solo Ralph A | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Maron Leonard M | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Weckerly Minnie L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Maron Leonard M | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Weckerly Geo G | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Maron Leoniard MD | Polk-Clement Directory Co. Inc., | Image pg. A110 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | Silvernail Alice L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Maron Leonard ironwkr h | Polk-Clement Directory Co., Publishers | Image pg. A404 |
| | Maron Louis mech r | Polk-Clement Directory Co., Publishers | Image pg. A404 |
| | STEVENS Sheldon slsmn h | Polk-Clement Directory Co., Publishers | Image pg. A405 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Carrington Thelma E Mrs | R. L. Polk Co., Publishers | Image pg. A22 |
| | Truesdell Ernest | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Carrington Thelma E Mrs | R. L. Polk Co., Publishers | Image pg. A29 |
| | Truesdell Ernest | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Carrington Thelma E Mrs | R. L. Polk Co., Publishers | Image pg. A35 |
| | Truesdell Ernest | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Carrington Thelma E Mrs | R. L. Polk Co. | Image pg. A42 |
| | Truesdell Ernest | R. L. Polk Co. | Image pg. A42 |
| 1970 | CARRINGTON THELMA E MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Carrington Peter J | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Carrington Peter J | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Ambrozak Alf A | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Romaszko Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Cosandier Lorain C | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Cosandier Louis H | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Cosandier Louis H | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Cosandier Louis H | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Cosandier Gerald mach r | Polk-Clement Directory Co., Publishers | Image pg. A406 |
| | Louis H h | Polk-Clement Directory Co., Publishers | Image pg. A406 |
| | Cosandier Gerald mach r | Polk-Clement Directory Co., Publishers | Image pg. A406 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A5 |
| 2001 | Not Verified | EQUIFAX Polk City Directory | Image pg. A11 |
| 1998 | Irion Brenda | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Scott Lolita A | R. L. Polk Co., Publishers | Image pg. A29 |
| | Jackson Cynthia L | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Johnson Freddie | R. L. Polk Co., Publishers | Image pg. A35 |
| | Gibson Wm E | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Graf Helen M | R. L. Polk Co. | Image pg. A42 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Dallas Nicholas | R. L. Polk Co. | Image pg. A42 |
| 1970 | GRAF HELEN M | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | DALLAS NICHOLAS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Graf Helen M | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | rear Butler Harriet M | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Graf Helen M | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Hessenthaler Albert C | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Butler Harriet M | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Graf Helen M | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Hessenthaler Albert C | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Butler Harriet M | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Graf Helen M | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Wolf Elmer J | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Graf Helen M | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Graf Helen M | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Wonacott Evelyn A | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Graf Helen M | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Hoak Arnold E | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Graf Ignatius | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Suits Robt J | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Frank asmblr r | Polk-Clement Directory Co., Publishers | Image pg. A407 |
| | Graf Frances E wid Ernest G h | Polk-Clement Directory Co., Publishers | Image pg. A407 |
| | Henry diemkr r | Polk-Clement Directory Co., Publishers | Image pg. A407 |
| | Grace E wid Julius h | Polk-Clement Directory Co., Publishers | Image pg. A407 |
| | Grace E wid Julius h | Polk-Clement Directory Co., Publishers | Image pg. A407 |
| | Ignatius cabtmkr h | Polk-Clement Directory Co., Publishers | Image pg. A407 |
| | Wm baker r | Polk-Clement Directory Co., Publishers | Image pg. A407 |
| | Grace Walter mach hd hl | Polk-Clement Directory Co., Publishers | Image pg. A407 |
| | Mc Mary wid Frank h | Polk-Clement Directory Co., Publishers | Image pg. A408 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Mc Cargo Tonetta | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A42 |
| | Vacant | R. L. Polk Co. | Image pg. A42 |
| | Rear Vacant | R. L. Polk Co. | Image pg. A42 |
| | Stephens James | R. L. Polk Co. | Image pg. A42 |
| | Davis Lula Belle | R. L. Polk Co. | Image pg. A42 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | CAMERON ROBT | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | LILLARA MARY | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Kirsch Mary A Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | OConnor Thos P | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | OConnor Thos P | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Kirsch Mary A Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | OConnell Thos | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Telesco Herman C | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Telesco Herman C | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Babski Leo G | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Gasser Harold | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | OConnor Thos P | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Gasser Harold | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Whitcomb Chester A | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Eller Arnold M | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Kohl Anthony | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Eller Arnold M | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Zech Wm G | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Eller Esther sten r | Polk-Clement Directory Co., Publishers | Image pg. A409 |
| | Eller Esther Ludwig plshr h | Polk-Clement Directory Co., Publishers | Image pg. A409 |
| | Wesley John E acct h | Polk-Clement Directory Co., Publishers | Image pg. A410 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Burse Veroni M & Maurice 1 Fl | Polk City Directories | Image pg. A5 |
| | Miller Angelo J Sr | Polk City Directories | Image pg. A5 |
| | Miller Maecile | Polk City Directories | Image pg. A5 |
| 2001 | Carr Lona | EQUIFAX Polk City Directory | Image pg. A11 |
| | Miller Angelo J | EQUIFAX Polk City Directory | Image pg. A11 |
| | Mingo Edward D | EQUIFAX Polk City Directory | Image pg. A11 |
| | Burse Maurice & Veronique | EQUIFAX Polk City Directory | Image pg. A11 |
| 1998 | Burse Maurice | The Polk Company,City Directory Division | Image pg. A15 |
| | Miller Angelo J | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | Miller Angelo | R. L. Polk Co., Publishers | Image pg. A22 |
| | Burse | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Miller Angelo J | R. L. Polk Co., Publishers | Image pg. A29 |
| | Burse Maurice | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Johnson Mollie Rev | R. L. Polk Co., Publishers | Image pg. A35 |
| | Mingo Veronique | R. L. Polk Co., Publishers | Image pg. A35 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Brown Ella | R. L. Polk Co. | Image pg. A42 |
| | Aluwani All l | R. L. Polk Co. | Image pg. A42 |
| 1970 | JOHNSON MOLLIE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | ALJUWANI ALI l | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Prince Thereon l | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | rear Aljuwani Alf l | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Arnold Wardner | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | rear Aljuwani Ali l | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Kirsch Mary Mrs | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Reichhart Samson | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | rear Zimmer Richd | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Reichhart Samson | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Kirsch Anthony | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Wendt Martha Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Kirsch Anthony | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Wendt Martha Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Siegfried Louis J | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Woods Louise T Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Wendt Edw J | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Hewitt Frances B Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Woods Louise T Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | rear Wendt Edw J | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | HIewitt Frances Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Sohneider Emil | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Wendt Edw | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | BUTLER Hazel M mach opr r | Polk-Clement Directory Co., Publishers | Image pg. A411 |
| | BUTLER Sadie Mrs tickmkr Superior Mattress Co Inc h | Polk-Clement Directory Co., Publishers | Image pg. A411 |
| | Stewart Chas J steamftr h | Polk-Clement Directory Co., Publishers | Image pg. A412 |
| | St J T Mrs h | Polk-Clement Directory Co., Publishers | Image pg. A413 |
| | Aary r | Polk-Clement Directory Co., Publishers | Image pg. A413 |

**264 SOUTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | No Return | R. L. Polk Co. | Image pg. A42 |
| | Mc Adams Wilma | R. L. Polk Co. | Image pg. A42 |
| 1970 | COTHRAN SAM | R.L. Polk Company, Inc., Publishers | Image pg. A50 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1964 | Wilson Mary | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Wood Calvin D | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Cameron Robt | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Jarrett Ethel M | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Cameron Robt | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Herman Richd H | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Schaefer Raymond J | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Herman Richd H | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Zimmer Richd F | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Allen Matilda C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Zimmer Richd F | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Hora Hulda Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Allen Jacob M | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Hora Hulda Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Allen Jacob | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Junke Leo G | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Hora Hulda Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Broderson Henry | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Deitsc man Ida Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Hora Hulda Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | ANDERSON Emilie P hairdrsr K N Garner r | Polk-Clement Directory Co., Publishers | Image pg. A414 |
| | FARR Sarah A Mrs h | Polk-Clement Directory Co., Publishers | Image pg. A415 |
| | Gross Anna A mlnr W C Glienke r | Polk-Clement Directory Co., Publishers | Image pg. A416 |
| | Gross Cath sten h | Polk-Clement Directory Co., Publishers | Image pg. A416 |
| | HOLMAN Thos elev opr h | Polk-Clement Directory Co., Publishers | Image pg. A417 |
| | Hora Hulda Mrs h rear | Polk-Clement Directory Co., Publishers | Image pg. A418 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A42 |
| 1970 | TRIPLETT DELORIS MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | PERRY JERRY L | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | EDWARDS JOHN REV | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Perry Jerry L | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Edwards Johnnie O | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Lee Billy G | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Kromer Fredk | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Moench Wm G | Polk-Clement Directory Co. Inc., | Image pg. A64 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Kromer Fredk | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Fullmer Carl | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Lyons Michl | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Schultz Gerard E | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Tornow Louise S | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Schultz Gerard E | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Schoening Fred C | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Tornow Louise S | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Schultz Gerard E | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Schoening Fred C | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Tornow Louise | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Schultz Gerand E | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Porter Russell W | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | rear Tornow Louise | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Schultz Gerard E | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Witzei Geo | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Tornow Lillie | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | TORNOWHenry Lillian tailoress r rear | Polk-Clement Directory Co., Publishers | Image pg. A420 |
| | WITZEL Amy bkpr r | Polk-Clement Directory Co., Publishers | Image pg. A421 |
| | WITZEL Geo bkpr h | Polk-Clement Directory Co., Publishers | Image pg. A421 |
| | Benz Evelyn L inspr Fox Film Corp r | Polk-Clement Directory Co., Publishers | Image pg. A419 |
| | Benz Henry wtchmn Buff Genl Electric Co h | Polk-Clement Directory Co., Publishers | Image pg. A419 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A42 |
| | Vacant | R. L. Polk Co. | Image pg. A42 |
| 1970 | HUTCHINS HENDERSON J JR | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | HUTCHINS LOUIS D | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Garvin Artis | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Hutchins Henderson jr | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Lindner John C | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Lindner John C | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Bunza Frances Mrs | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Lindner John C | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Bunza Frances Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Lindner John C | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Bunza Frances Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |

| Year | Uses | Source | |
|---|---|---|---|
| 1940 | Lindner John C | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Lindner John C | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Juhnke Gustave | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Lindner John C | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Junke Gustav | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Junke Gustave shoemkr h | Polk-Clement Directory Co., Publishers | Image pg. A422 |
| | LINDNER John C printer h | Polk-Clement Directory Co., Publishers | Image pg. A423 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A5 |
| 2001 | Reddreck James T | EQUIFAX Polk City Directory | Image pg. A11 |
| 1998 | Young D | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | Meredith Lucille | R. L. Polk Co., Publishers | Image pg. A22 |
| | Demetrik Yaong | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Reddreck Alesia | R. L. Polk Co., Publishers | Image pg. A29 |
| | Meredith Lucille | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Meredith Lale | R. L. Polk Co., Publishers | Image pg. A35 |
| | Clark Carl E | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Meredith Lucille | R. L. Polk Co. | Image pg. A42 |
| | Shaw Willie | R. L. Polk Co. | Image pg. A42 |
| 1970 | MEREDITH LUCILLE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Kruse Louise M Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | wirth Fredk | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Kruse Louise Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Wirth Fredk | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Kruse Albert | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Wirth Fredk | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Kruse Albert | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Wirth Fred | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Kruse Albert | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Schutt Minnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Kruse Albert | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Schutt Minnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Kruse Albert | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Schutt Minnie Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Kruse Albert | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Schutt Minnie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Kruse Albert eng r | Polk-Clement Directory Co., Publishers | Image pg. A424 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Kruse Chas h rear | Polk-Clement Directory Co., Publishers | Image pg. A424 |
| | Schutt Minnie wid Albert h | Polk-Clement Directory Co., Publishers | Image pg. A425 |

**270 SOUTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Ashford Anquonique D i | Polk City Directories | Image pg. A5 |
| | Clark Teniqua | Polk City Directories | Image pg. A5 |
| 1992 | Jones Gregory | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Clark Helen A Mrs | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Alston Sam J | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Alston Helen Mrs | R. L. Polk Co. | Image pg. A42 |
| 1970 | ALSTON HELEN MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | WALLACE MANDY MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | DeLarre Ralph | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | DeLarre Ralph | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Noland Pat J Mrs | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | DeLarre Ralph | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Daluisio Frank J | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Klenk Russell W | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | DeLarre Ralph | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Gross Rose D Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Kracht Kath E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Kracht Wm C | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Bork Frank B | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Kracht Wm C | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Bork Frank B | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Holzhousen Peter | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Holz Lenora nurse | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Smith Galvin | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Blum Clara sten h | Polk-Clement Directory Co., Publishers | Image pg. A426 |
| | Robt A electn h | Polk-Clement Directory Co., Publishers | Image pg. A426 |
| | Blum Martha wid Edw h | Polk-Clement Directory Co., Publishers | Image pg. A426 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1998 | Jones L | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A22 |
| 1980 | Trueheart | R. L. Polk Co., Publishers | Image pg. A35 |
| | Thompson Jacqueline | R. L. Polk Co., Publishers | Image pg. A35 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Hill Elwood | R. L. Polk Co. | Image pg. A42 |
| | Burks Burt | R. L. Polk Co. | Image pg. A42 |
| 1970 | JOHNSON ABE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | FERGUSON DAVID | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Bullock Bernice A Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Johnson Abe | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Wolfanger Merle R | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Wohler Emil | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Barnes Andrew | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Johnson Abe | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Wolfanger Merle R | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Wohler Emil | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Simme Isabelle Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Wohler Emil | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Simme Howard H | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Wohler Emil | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Kruse Agnes Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Wood Howard | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Kruse Agnes Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Egloff Frank M | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Didion John | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Walpole Frank | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Kruse Agnes Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |

**273 SOUTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Jones Catherine A | Polk City Directories | Image pg. A5 |
| | Jones Shirley A | Polk City Directories | Image pg. A5 |
| | Poole Claudia E | Polk City Directories | Image pg. A5 |
| | Workman Euginia C | Polk City Directories | Image pg. A5 |
| 2001 | Hall Elizabeth | EQUIFAX Polk City Directory | Image pg. A11 |
| | Workman Eugenia | EQUIFAX Polk City Directory | Image pg. A11 |
| 1998 | Fair Lolitha J | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | Draper Vincent | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Jeter Joann | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A35 |
| | Clappell Dortha | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Williams Mary | R. L. Polk Co. | Image pg. A42 |
| | Anderson Reba J | R. L. Polk Co. | Image pg. A42 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1970 | BEDFORD IDA M | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | WOODS CALVIN | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Eccles James L | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Hearon Wm H | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Draper Emmett L jr | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Mazzone Frank L | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Antoinetti Giordono | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Fischer Nelson G | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Mazzone Frank | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Theobald Louise C Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Fischer Nelson G | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Hildebrand Marie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Theobald Wm C | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Hildebrand Marie Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Theobald Wm C | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Rutss John J | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Thieobald Wm C | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Schaertel Aug J pkr h | Polk-Clement Directory Co., Publishers | Image pg. A427 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Jackson Darryl L | Polk City Directories | Image pg. A5 |
| | Johnson Regina | Polk City Directories | Image pg. A5 |
| | Johnson Vene C | Polk City Directories | Image pg. A5 |
| 2001 | Johnson Regina | EQUIFAX Polk City Directory | Image pg. A11 |
| | Not Verified | EQUIFAX Polk City Directory | Image pg. A11 |
| 1992 | Jackson Onnie M Mrs | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Jackson Onnie M Mrs | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Jackson Onnie M Mrs | R. L. Polk Co., Publishers | Image pg. A35 |
| | Sedge James | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Jackson Onnie M Mrs | R. L. Polk Co. | Image pg. A42 |
| | Sledge James | R. L. Polk Co. | Image pg. A42 |
| 1970 | JACKSON JOHNNIE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | PERRY LUCINDA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Vanderwarker Carl | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Althen Elijah | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | rear Noland Patk J | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Althen Elijah | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Vanderwarker Carl | Polk-Clement Directory Co. Inc., | Image pg. A64 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Jackson Benj F | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Houghton Thos H | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | rear Mellan Virginia L Mrs | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Miller Alvina R Mrs | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Houghton Thos H | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Mellan Hans | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Miller Alvina R Mrs | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Houghton Thos H | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Mellan Hans | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Miller Alvina R Mrs | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Houghton Thos H | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Speares John H | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Miller Alvina R Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Fleming Mabel K Mrs | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | rear Speares John | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Miller Lena Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Hohenstein Edw J | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Chlandler Barbara Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Hohenstein Edw meat ctr h | Polk-Clement Directory Co., Publishers | Image pg. A428 |
| | Mills Wm miller Maritime Milling Co h | Polk-Clement Directory Co., Publishers | Image pg. A429 |
| | Wm weighmstr h | Polk-Clement Directory Co., Publishers | Image pg. A429 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Alford Willie | EQUIFAX Polk City Directory | Image pg. A11 |
| | Smith Melissa | EQUIFAX Polk City Directory | Image pg. A11 |
| 1998 | Brown Robert E | The Polk Company,City Directory Division | Image pg. A15 |
| | Price Stephanie M | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Chappell Elsie | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Vines Edward | R. L. Polk Co., Publishers | Image pg. A35 |
| | Chappel Elsie | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Vines Edward | R. L. Polk Co. | Image pg. A42 |
| | No Return | R. L. Polk Co. | Image pg. A42 |
| 1970 | CHAPPELL ELSIE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | DILLWORTH LOUISE | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Rutland Wm J | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Taylor Edgar V | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Rutland Wm J | Polk-Clement Directory Co. Inc., | Image pg. A64 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1960 | Shields Chas E | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Anthony Calvert P | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Anthony Calvert P | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Anthony Robt J | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Wirth Fredk | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Cloutier Louis B | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Wirth Fredk | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Cloutier Louis B | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Russell Richd | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Wirth Fredk | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Ehonke Edw F | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Heimel Geo S | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | LEMBKE Fred blrmkr h | Polk-Clement Directory Co., Publishers | Image pg. A430 |
| | Mathiebe Alf musician h | Polk-Clement Directory Co., Publishers | Image pg. A431 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Blackmon Carl J | Polk City Directories | Image pg. A5 |
| | Blackmon Latrina D | Polk City Directories | Image pg. A5 |
| | Hodge Natoya L E | Polk City Directories | Image pg. A5 |
| 2001 | Blackmon Carl | EQUIFAX Polk City Directory | Image pg. A11 |
| | Shepherd Anita M | EQUIFAX Polk City Directory | Image pg. A11 |
| 1998 | Blackmon Carl J | The Polk Company,City Directory Division | Image pg. A15 |
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Foster | R. L. Polk Co., Publishers | Image pg. A29 |
| | Rear Alexander Joyce | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Pigrm James H | R. L. Polk Co., Publishers | Image pg. A35 |
| | Rear Vacant | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A42 |
| | Rear Vacant | R. L. Polk Co. | Image pg. A42 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | JONES CHARLES | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Salter Alvin | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Pitts Rosalie Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | rear Morley Chas F | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Salter Alvin D | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Salter Willie | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | rear Morley Chas F | Polk-Clement Directory Co. Inc., | Image pg. A64 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Lillien Leo | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | rear Morley Chas jr | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Morse Stanley paperhngr | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Wolf Jos | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Quinn Thos J | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Wolf Jos | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Quinn Thos J | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Morse Stanley paperhngr | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Bennett Leo S | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Caldwell Jerome J | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Brennan Stanley E | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Herrmann Elmer N | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Bedell Irving C | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Price Chas E | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Rudev John C | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Overfield Andrew H | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Reynolds Howard | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | REYNOLDS Howard A tmstr h rear | Polk-Clement Directory Co., Publishers | Image pg. A433 |
| | Hohensee Edw pimbr h | Polk-Clement Directory Co., Publishers | Image pg. A432 |

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| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Jenkins Tearence | EQUIFAX Polk City Directory | Image pg. A11 |
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Williams Marchita | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A35 |
| | Vacant | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A42 |
| | Vacant | R. L. Polk Co. | Image pg. A42 |
| 1970 | BENSON THOS | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| | HICKS EDDIE M | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Hicks Eddie M | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| | Page Wilbert | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Morse Stanley | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Morse Stanley | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Miller Jacob | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Storek Harriet F | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Caldwell Jerome J | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Storck Harriet F | Polk-Clement Directory Co. Inc., | Image pg. A86 |

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| Year | Uses | Source | |
|---|---|---|---|
| 1946 | Caldwell Jerome J | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Ferer Irving | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Senn Wm L jr | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Dibble Geo W | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Smith R Frank | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Churchill Harold G | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Rudolplh Avis Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| | Seligmnan Harry E | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Breeser Floyd hlpr Bridgeman Russell Co Inc r | Polk-Clement Directory Co., Publishers | Image pg. A434 |

**279 SOUTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Williams Sarah | R. L. Polk Co., Publishers | Image pg. A22 |
| 1985 | Williams Sarah | R. L. Polk Co., Publishers | Image pg. A29 |
| | Turner Emma Mrs | R. L. Polk Co., Publishers | Image pg. A29 |
| 1980 | Harris Geo L | R. L. Polk Co., Publishers | Image pg. A35 |
| | Mitcheil Robt | R. L. Polk Co., Publishers | Image pg. A35 |
| 1975 | Martin Evelyn Mrs | R. L. Polk Co. | Image pg. A42 |
| | Vacant | R. L. Polk Co. | Image pg. A42 |
| 1970 | MARTIN EVELYN | R.L. Polk Company, Inc., Publishers | Image pg. A50 |
| 1964 | Senn Wm F | R. L. Polk Co., Inc., Publishers | Image pg. A58 |
| 1960 | Senn Wm F | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| | Lewis Jas L | Polk-Clement Directory Co. Inc., | Image pg. A64 |
| 1955 | Allen Wm R | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| | Senn Wm F | Polk-Clement Directory Co. Inc., | Image pg. A72 |
| 1950 | Allen Wm R | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| | Senn Wm F | Polk-Clement Directory Co. Inc., | Image pg. A79 |
| 1946 | Senn Wm F | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| | Murphy Jas M | Polk-Clement Directory Co. Inc., | Image pg. A86 |
| 1940 | Murphy Jas M | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| | Domescek Ralph L | Polk-Clement Directory Co. Inc., | Image pg. A93 |
| 1935 | Murphy Margt F | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| | Domescek Ralph L | Polk-Clement Directory Co. Inc. | Image pg. A101 |
| 1930 | Riley Cath Mrs | Polk-Clement Directory Co. Inc., | Image pg. A110 |
| 1925 | Breeser Lloyd cream grader r rear | Polk-Clement Directory Co., Publishers | Image pg. A434 |
| | Goldberg Betty r | Polk-Clement Directory Co., Publishers | Image pg. A435 |
| | GOLDBERG David clk Newark Shoe Stores Co r | Polk-Clement Directory Co., Publishers | Image pg. A435 |
| | David B slsmn r | Polk-Clement Directory Co., Publishers | Image pg. A435 |

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | GOLDBERG Harry I acct r | Polk-Clement Directory Co., Publishers | Image pg. A435 |
| | GOLDBERG Sol P cabtmkr r | Polk-Clement Directory Co., Publishers | Image pg. A436 |
| | GOLDBERG Wm tailor h | Polk-Clement Directory Co., Publishers | Image pg. A436 |
| | Lightman Harry tailor Britenstool Jaffe Bramson h | Polk-Clement Directory Co., Publishers | Image pg. A437 |
| | Shirkey Lawrence formn r rear | Polk-Clement Directory Co., Publishers | Image pg. A438 |
| | Stockwell Homer mach Buff Nipple & Mach Co Inc h rear | Polk-Clement Directory Co., Publishers | Image pg. A439 |
| | THOMAS Chas J sec h rear | Polk-Clement Directory Co., Publishers | Image pg. A440 |

**280 SOUTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A101 |

**282 SOUTHAMPTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Vacant | Polk-Clement Directory Co. Inc. | Image pg. A101 |

## SOUTHAMTON ST

**263 SOUTHAMTON ST**

| Year | Uses | Source | |
|---|---|---|---|
| 1925 | Hewitt Chas | Polk-Clement Directory Co., Publishers | Image pg. A441 |
| | Chas E cond h | Polk-Clement Directory Co., Publishers | Image pg. A441 |

## WILLOW PL

**1 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 1930 | S Schwprt John | Polk-Clement Directory Co. Inc., | Image pg. A111 |

**11 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Belamy Jeiff | R. L. Polk Co. | Image pg. A43 |
| | Vacant | R. L. Polk Co. | Image pg. A43 |
| 1970 | BELLAMY JEFF | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Bellamy Jeff | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Bellamy Jeff | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| | White Johnny J | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Eldridge Willard F | Polk-Clement Directory Co. Inc., | Image pg. A73 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Kloss Rose Mrs | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Eldridge Garry | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| | Eldridge Willard F | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Gruber John J | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| | Armour Albert J | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Gocher Ralph A | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| | Armour Albert J | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1935 | Spawton Walter J | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| | Howard Geo H | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Strobele Jos | Polk-Clement Directory Co. Inc., | Image pg. A111 |

**12 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Bel U y Yo 7md | R. L. Polk Co. | Image pg. A43 |
| 1970 | KAMP MICHL F | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Kamp Michael F | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Kamp Michl F | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| | Kamp Leonard F | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Kamp Michl F | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| | Kamp Leonard F | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Cooke Edw C | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| | Kamp Michl F | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Cooke Edw C | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| | Kamp Michl F | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Cooke Edw C | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| | Kamp Michl F | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1935 | Cooke Edw C | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Kamp Michl | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| | Cooke Edw C | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | Cooke Edw C stmftr h | Polk-Clement Directory Co., Publishers | Image pg. A442 |
| | JACOBS Leonard slsmn J N Adam & Co r | Polk-Clement Directory Co., Publishers | Image pg. A443 |

**13 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Turner Perry 1 W | Polk City Directories | Image pg. A6 |
| | Turner Demetrice L | Polk City Directories | Image pg. A6 |
| 2001 | 1 Not Verified | EQUIFAX Polk City Directory | Image pg. A12 |
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A23 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Bills Willie L | R. L. Polk Co., Publishers | Image pg. A30 |
| | Lee Venessa | R. L. Polk Co., Publishers | Image pg. A30 |
| 1980 | Bill Willie L | R. L. Polk Co., Publishers | Image pg. A36 |
| | Williams Bobbie | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Bils Willie L | R. L. Polk Co. | Image pg. A43 |
| | Williams B | R. L. Polk Co. | Image pg. A43 |
| 1970 | BILLS WILLIE L | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| | WILLIAMS BOBBIE MRS | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Bills William L | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Bills Wm L | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| | Reid Lucille Mrs | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Bills Wm L | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| | Williams Page | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Schrimmel Margt Mrs | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| | Brown Gregory H | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Villa Wm T | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| | Horrigan Wm J | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Fisher David R | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| | Smith Norman J | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1935 | Dilcher Emma H Mrs | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| | Merrill Martin H | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Dilcher Emma Mrs | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| | Merrill Martin H | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | Dilcher Emma H wid Henry r | Polk-Clement Directory Co., Publishers | Image pg. A444 |
| | MERRILL Martin H millwright h | Polk-Clement Directory Co., Publishers | Image pg. A445 |

**14 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Vacant | R. L. Polk Co., Publishers | Image pg. A23 |
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A30 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Vcacnt | R. L. Polk Co. | Image pg. A43 |
| 1970 | MODERN FURNITURE CO GARAGE | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Kayser Furn Co garage | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Kayser Furn Co garage | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Kayser Furn Co garage | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Kayser Furn Co garage | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Kayser Furn Co garage | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Kayser Furn Co garage | Polk-Clement Directory Co. Inc., | Image pg. A94 |

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Kayser Furn Co garage | Polk-Clement Directory Co. Inc. | Image pg. A102 |

**15 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Davis Constance Mrs | R. L. Polk Co., Publishers | Image pg. A23 |
| 1985 | Davis Constante Mrs | R. L. Polk Co., Publishers | Image pg. A30 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A36 |
| 1970 | EAGAL LAWRENCE L | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Eagal Lawrence L | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Eagal Lawrence L | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Eagal Lawrence | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1946 | Eagal Lawrence | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Manser Lillian | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1935 | Manser Fannie Mrs | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Manser Fannie Mrs | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | Manser Fanny wid Thos B h | Polk-Clement Directory Co., Publishers | Image pg. A446 |
| | Manser Lillian elk Foster Milburn Co r | Polk-Clement Directory Co., Publishers | Image pg. A446 |

**16 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 1975 | Vacant | R. L. Polk Co. | Image pg. A43 |
| 1970 | BELENKY FANNY MRS | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| | WILLIAMS MARY E MRS | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Spikes Susan Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| | Belenky Fanny Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Belenky Fanny Mrs | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Belenky Fanny Mrs | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Cleveland Lester E | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| | Belenky Fanny Mrs | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Cleveland Lester E | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| | Belenky Fanny Mrs | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Scarpace Anthony | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| | Berensky Fanny Mrs | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| | Saran Louis | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1935 | Belinky Fanny Mrs | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| | Meyer Melvin | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Fisoher Elmer L | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| | Belenky Isaac whol produce | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | Mc Walter J lab h | Polk-Clement Directory Co., Publishers | Image pg. A447 |

# FINDINGS

**17 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 1985 | Vacant | R. L. Polk Co., Publishers | Image pg. A30 |
| 1975 | Lafayette Emily | R. L. Polk Co. | Image pg. A43 |
| | Vacantt | R. L. Polk Co. | Image pg. A43 |
| 1970 | WESNEP BARBARA A | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| | KAMPOFF IDA E MRS | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Wesner Barbara A | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Wesner Barbara A | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| | Kampoff Ida E Mrs | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Wesner Barbara A | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Wesner Barbara A | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| | Kampaff Geo P | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Wesner Barbara A | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| | Kampoff Geo P | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Wesner Ernestine Mrs | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1935 | Wesner Fred J | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Wesner Fred F | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | Wesner Barbara clk Buff Evening News r | Polk-Clement Directory Co., Publishers | Image pg. A448 |
| | Wesner Fred lab h | Polk-Clement Directory Co., Publishers | Image pg. A448 |

**18 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 1992 | Hill Mary | R. L. Polk Co., Publishers | Image pg. A23 |
| 1985 | Hill | R. L. Polk Co., Publishers | Image pg. A30 |
| 1980 | Ashfer Annie | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A43 |
| 1970 | KAIGLER MOSES C | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| | SWAGGARD BARBARA MRS | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Cooper Vera Mrs | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| | Carter Jessie | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Jones Jeanne Mrs | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Wuendsch Dolores M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| | Woolsey Geo V | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Witzel Albert H | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| | Wuendsch Albert A | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Witzel Albert H | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| | Wuendsch Albert A | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Witzel Albert H | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| | Golibersuch Paul A | Polk-Clement Directory Co. Inc., | Image pg. A94 |

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Schwert John | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1925 | Schwert John lab h | Polk-Clement Directory Co., Publishers | Image pg. A449 |

**19 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | 20 No Current Listing 2 Hses | Polk City Directories | Image pg. A6 |
| 2001 | Not Verified | EQUIFAX Polk City Directory | Image pg. A12 |
| 1992 | No Return | R. L. Polk Co., Publishers | Image pg. A23 |
| 1985 | Spell Lehman W | R. L. Polk Co., Publishers | Image pg. A30 |
| 1980 | Spell Lehman W | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Spe U Lehmnan W | R. L. Polk Co. | Image pg. A43 |
| 1970 | SPELL LEHMAN W | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Spell Lehman W | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Spell Lehman | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Freitas E Harry | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Freitas E Henry | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Freitas E Henry | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Freitas Henry E | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1935 | Freitas Harry E | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Goldstein Morris | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | Goldstein Jos elk Herman Neifach h | Polk-Clement Directory Co., Publishers | Image pg. A450 |
| | GOLDSTEIN Morris ironwkr h | Polk-Clement Directory Co., Publishers | Image pg. A451 |
| | Goldstein Max locksmith r | Polk-Clement Directory Co., Publishers | Image pg. A450 |

**20 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 2001 | Williams Lassiter L | EQUIFAX Polk City Directory | Image pg. A12 |
| 1998 | Williams Lisa R | The Polk Company,City Directory Division | Image pg. A16 |
| 1992 | Williams Stanton C | R. L. Polk Co., Publishers | Image pg. A23 |
| 1985 | Williams Stanton | R. L. Polk Co., Publishers | Image pg. A30 |
| 1980 | Williams Stanton | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Williams Stanton | R. L. Polk Co. | Image pg. A43 |
| 1970 | WILLIAMS STANTON | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Williams Stanton | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Rowe Jas P | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Rowe Jas P | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Rowe Jas P | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Rowe Jas P | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Rowe Jas P | Polk-Clement Directory Co. Inc., | Image pg. A94 |

| Year | Uses | Source | |
|---|---|---|---|
| 1935 | Rowe Jas P | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| | Baeumler Wm | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| | Zuber Edw G pntr | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Rowe Jas P | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | ROWE Jas P slsmn h | Polk-Clement Directory Co., Publishers | Image pg. A452 |

**21 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | Gidney Elverna D z 27 i A | Polk City Directories | Image pg. A6 |
| 2001 | Gidney Elverna D | EQUIFAX Polk City Directory | Image pg. A12 |
| 1998 | Gidney Elverna D Ei | The Polk Company,City Directory Division | Image pg. A16 |
| 1992 | Gedney Elverna | R. L. Polk Co., Publishers | Image pg. A23 |
| 1985 | Gedney Alverna | R. L. Polk Co., Publishers | Image pg. A30 |
| 1980 | Vacant | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Vacant | R. L. Polk Co. | Image pg. A43 |
| 1970 | VACANT | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Morey Janice | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Zuber Henrietta B Mrs | Polk-Clement Directory Co. Inc., | Image pg. A65 |
| 1955 | Zuber Edw G | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Zuber Edw G | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Zuber Edw G pntr | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Zuber Edw G pntr Baeumler Wm | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1930 | Baeunsler Wm | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | Baeumler Wm decorator h | Polk-Clement Directory Co., Publishers | Image pg. A453 |
| | Baeumler Henrietta B elk United Motors Service r | Polk-Clement Directory Co., Publishers | Image pg. A453 |

**22 WILLOW PL**

| Year | Uses | Source | |
|---|---|---|---|
| 2008 | No Current Listing | Polk City Directories | Image pg. A6 |
| 2001 | Bell Henry Jr | EQUIFAX Polk City Directory | Image pg. A12 |
| 1998 | Glover Hazel | The Polk Company,City Directory Division | Image pg. A16 |
| 1992 | Smith P | R. L. Polk Co., Publishers | Image pg. A23 |
| 1985 | Stewart Bertha Mrs | R. L. Polk Co., Publishers | Image pg. A30 |
| 1980 | Stwart Bertha | R. L. Polk Co., Publishers | Image pg. A36 |
| 1975 | Bell Milwe L Mrs 882 Z | R. L. Polk Co. | Image pg. A43 |
| 1970 | BELL WILLIE D | R.L. Polk Company, Inc., Publishers | Image pg. A51 |
| 1964 | Bell Willie D | R. L. Polk Co., Inc., Publishers | Image pg. A59 |
| 1960 | Vacant | Polk-Clement Directory Co. Inc., | Image pg. A65 |

# FINDINGS

| Year | Uses | Source | |
|---|---|---|---|
| 1955 | Wiediger Wm dental supplies | Polk-Clement Directory Co. Inc., | Image pg. A73 |
| 1950 | Wiediger Wm dental supplies | Polk-Clement Directory Co. Inc., | Image pg. A80 |
| 1946 | Wiediger Anna M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| | Wiediger Wm dental supplies | Polk-Clement Directory Co. Inc., | Image pg. A87 |
| 1940 | Wiediger Anna M Mrs | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| | Wiediger Wm dental supplies | Polk-Clement Directory Co. Inc., | Image pg. A94 |
| 1935 | Wiediger Anna M Mrs | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| | Wiediger Wm dental supplies | Polk-Clement Directory Co. Inc. | Image pg. A102 |
| 1930 | Wiediger Wnm dental supplies | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| | Wiediger Anna MI Mrs | Polk-Clement Directory Co. Inc., | Image pg. A111 |
| 1925 | Wiediger Leroy welder h | Polk-Clement Directory Co., Publishers | Image pg. A454 |
| | Wm clk W H Prentice r | Polk-Clement Directory Co., Publishers | Image pg. A454 |
| | Wiediger Wm Jr slsmn r | Polk-Clement Directory Co., Publishers | Image pg. A454 |

# FINDINGS

## TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1200 Jefferson Avenue | 2014, 2010, 2008, 2001, 1998, 1996, 1992 |

## ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1 WILLOW PL | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1925 |
| 11 WILLOW PL | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1925 |
| 1130 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1996 |
| 1131 JEFFERSON AVE | 2014, 2010, 1996, 1925 |
| 1131 Jefferson Ave | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1131 Jefferson Ave | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1132 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992 |
| 1132 JEFFERSON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 1133 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1925 |
| 1135 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1925 |
| 1136 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 1137 JEFFERSON AVE | 2014, 2010, 1996, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1137 Jefferson Ave | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1137 Jefferson Ave | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1138 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975 |
| 1140 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996 |
| 1140 JEFFERSON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 1142 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964 |
| 1143 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1925 |

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|---|---|
| 1145 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1946, 1940, 1935, 1930, 1925 |
| 1147 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1925 |
| 1149 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975 |
| 1150 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1152 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1925 |
| 1153 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970 |
| 1154 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960 |
| 1155 JEFFERSON AVE | 2014, 2010, 1996 |
| 1159 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1925 |
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| 1160 Jefferson Ave | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1160 Jefferson Ave | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1162 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975 |
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| 1166 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 1168 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1940, 1930, 1925 |
| 1170 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1975, 1970, 1964, 1960, 1955, 1925 |
| 1179 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1181 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1975, 1964, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1182 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1925 |
| 1183 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1960, 1955, 1930, 1925 |
| 1184 JEFFERSON AVE | 2014, 2010, 2008, 1998, 1996 |
| 1184 Jefferson Ave | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1184 Jefferson Ave | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1185 Jefferson Ave | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1185 Jefferson Ave | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1185 JEFFERSON AVE | 2014, 2010, 1998, 1996, 1925 |

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| 1187 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1935 |
| 1188 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975 |
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| 1198 JEFFERSON AVE | 2014, 2010, 2008, 1996, 1925 |
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| 12 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 12 WILLOW PL | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
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| 1202 JEFFERSON AVE | 2014, 2010, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1935, 1930, 1925 |
| 1202 Jefferson Ave | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1202 Jefferson Ave | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1203 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1925 |
| 1204 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1925 |
| 1205 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946 |
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| 1212 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996 |
| 1213 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1946, 1925 |
| 1214 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1925 |
| 1215 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1955, 1950, 1925 |

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| 1215 JEFFERSON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
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| 1217 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980 |
| 1218 JEFFERSON AVE | 2014, 2010, 2008, 1996, 1946 |
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| 1223 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960 |
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| 1238 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1925 |
| 1239 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1996, 1975, 1925 |
| 1239 Jefferson Ave | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1239 Jefferson Ave | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1240 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964 |
| 1240 JEFFERSON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 1241 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1242 JEFFERSON AVE | 2014, 2010, 1996, 1985, 1970, 1964, 1960, 1955, 1950, 1946, 1935, 1930, 1925 |
| 1242 Jefferson Ave | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |

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| 1242 Jefferson Ave | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 1243 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1925 |
| 1244 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970 |
| 1245 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1980, 1975 |
| 1246 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 1247 JEFFERSON AV H421 ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 1247 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1975, 1925 |
| 1249 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1925 |
| 1250 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1930, 1925 |
| 1251 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980 |
| 1252 JEFFERSON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935 |
| 1254 JEFFERSON AV H81 ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 13 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 13 WILLOW PL | 2014, 2010, 1998, 1996 |
| 14 WILLOW PL | 2014, 2010, 2008, 2001, 1998, 1996, 1930, 1925 |
| 15 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 15 WILLOW PL | 2014, 2010, 2008, 2001, 1998, 1996, 1975, 1950 |
| 16 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992 |
| 16 WILLOW PL | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980 |
| 17 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 17 GERHARDT ST | 2014, 2010, 2001, 1998, 1996 |
| 17 KINGSLEY ST | 2014, 2010, 1996, 1992, 1980, 1975, 1970, 1964 |
| 17 Kingsley St | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 17 Kingsley St | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 17 WILLOW PL | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1980 |
| 18 GERHARDT ST | 2014, 2010, 2008, 1998, 1996 |
| 18 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 18 WILLOW PL | 2014, 2010, 2008, 2001, 1998, 1996, 1930 |
| 19 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |

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| Address Researched | Address Not Identified in Research Source |
|---|---|
| 19 GERHARDT ST | 2014, 2010, 2008, 1998, 1996, 1925 |
| 19 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992 |
| 19 WILLOW PL | 2014, 2010, 1998, 1996 |
| 20 GERHARDT ST | 2014, 2010, 1998, 1996 |
| 20 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 20 WILLOW PL | 2014, 2010, 2008, 1996 |
| 21 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 21 GERHARDT ST | 2014, 2010, 1998, 1996, 1925 |
| 21 Gerhardt St | 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 21 Gerhardt St | 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 21 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 21 WILLOW PL | 2014, 2010, 1996, 1935 |
| 210 EATON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1950, 1946, 1940, 1935, 1930, 1925 |
| 211 EATON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1925 |
| 212 EATON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1935, 1930, 1925 |
| 216 EATON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 218 EATON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 22 GERHARDT ST | 2014, 2010, 1998, 1996 |
| 22 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 22 WILLOW PL | 2014, 2010, 1996 |
| 23 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 23 GERHARDT ST | 2014, 2010, 1998, 1996, 1925 |
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| 24 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980 |
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| 242 SOUTHAMPTON ST | 2014, 2010, 1996 |
| 245 SOUTHAMPTON ST | 2014, 2010, 1998, 1996 |

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| 25 KINGSLEY ST | 2014, 2010, 1996, 1980 |
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| 252 SOUTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996 |
| 254 SOUTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1935, 1930, 1925 |
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| 255 SOUTHAMPTON | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 255 SOUTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996 |
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| 26 Gerhardt St | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 26 Gerhardt St | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 26 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
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| 27 GERHARDT ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1925 |
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| 271 SOUTHAMP ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |

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| 29 GERHARDT ST | 2014, 2010, 1998, 1996, 1925 |
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| 319 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996 |
| 32 KIINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 32 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1925 |
| 321 NORTHAMPTON ST | 2014, 2010, 2001, 1998, 1996 |
| 322 NORTHAMP ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 322 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1925 |
| 323 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1925 |
| 325 NORTHAMPTON ST | 2014, 2010, 2008, 1998, 1996 |
| 326 NORTHAMPTON ST | 2014, 2010, 1998, 1996 |
| 326 NORTHUM ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 328 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980 |
| 329 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1925 |
| 33 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 33 GERHARDT ST | 2014, 2010, 1998, 1996 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 33 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 336 NORTHUM ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 339 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1940 |
| 34 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 34 GERHARDT ST | 2014, 2010, 1998, 1996, 1925 |
| 34 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980 |
| 340 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1946, 1940, 1935, 1930, 1925 |
| 35 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975 |
| 36 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 36 GERHARDT ST | 2014, 2010, 1998, 1996, 1925 |
| 36 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985 |
| 362 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935 |
| 366 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975 |
| 367 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1935, 1930, 1925 |
| 368 NORTHAMP ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 368 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996 |
| 370 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996 |
| 371 NORTHAMPTON ST | 2014, 2010, 1998, 1996, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 371 Northampton St | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 371 Northampton St | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 372 NORTHAMP ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 372 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1950 |
| 373 NORTHAMPTON ST | 2014, 2010, 2008, 1998, 1996 |
| 374 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996 |
| 375 NORTHUM ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 376 NORTHAMP ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 376 NORTHAMPTON ST | 2014, 2010, 1998, 1996 |
| 377 NORTHAMPTON ST | 2014, 2010, 2008, 1998, 1996 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 378 NORTHAMPTON ST | 2014, 2010, 2008, 1998, 1996, 1925 |
| 379 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 38 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 38 GERHARDT ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1925 |
| 38 KINGSLEY ST | 2014, 2010, 1996 |
| 380 NORTHAMPTON ST | 2014, 2010, 1998, 1996, 1925 |
| 382 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1946, 1940, 1935, 1930, 1925 |
| 382 NORTHUM ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 387 NORTHAMPTON ST | 2014, 2010, 1998, 1996 |
| 39 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 39 GERHARDT ST | 2014, 2010, 1998, 1996, 1925 |
| 39 Gerhardt St | 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 39 Gerhardt St | 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 39 KINGSLEY ST | 2014, 2010, 2008, 1996, 1960 |
| 390 NORTHAMP ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 390 NORTHAMPTON ST | 2014, 2010, 1998, 1996 |
| 391 NORTHAMPTON ST | 2014, 2010, 1998, 1996 |
| 392 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980 |
| 393 NORTHAMPTON | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 393 NORTHAMPTON ST | 2014, 2010, 1998, 1996 |
| 394 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1925 |
| 395 NORTHAMPTON ST | 2014, 2010, 1998, 1996 |
| 396 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996 |
| 398 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1955, 1950, 1946, 1940, 1935 |
| 399 NORTHAMPTON ST | 2014, 2010, 2001, 1998, 1996, 1925 |
| 40 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975 |
| 400 NORTHAMPTON ST | 2014, 2010, 1998, 1996, 1960, 1930, 1925 |
| 400 Northampton St | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 400 Northampton St | 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 401 NORTHAMPTON AVE | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 401 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992 |
| 402 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 404 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1925 |
| 405 NORTHAMPTON ST | 2014, 2010, 1998, 1996 |
| 405 Northampton St | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 405 Northampton St | 2014, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 406 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964 |
| 408 NORTHAMPTON ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964 |
| 41 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 41 GERHARDT ST | 2014, 2010, 2008, 1998, 1996, 1925 |
| 42 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 42 GERHARDT ST | 2014, 2010, 2008, 1998, 1996, 1925 |
| 43 GERHARDT ST | 2014, 2010, 1998, 1996 |
| 43 KINGSLEY ST | 2014, 2010, 2008, 1998, 1996 |
| 44 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 44 GERHARDT ST | 2014, 2010, 2008, 1998, 1996, 1925 |
| 46 KINGSLEY ST | 2014, 2010, 1996 |
| 47 GERHARDT ST | 2014, 2010, 1998, 1996 |
| 48 GERHARD ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 48 GERHARDT ST | 2014, 2010, 2008, 2001, 1998, 1996, 1925 |
| 49 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1925 |
| 5 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1925 |
| 50 GERHARDT ST | 2014, 2010, 2008, 1998, 1996 |
| 50 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996 |
| 52 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970 |
| 53 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 7 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1930, 1925 |
| 8 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1975, 1970, 1964, 1960, 1955, 1950, 1946, 1940, 1935, 1930 |
| 9 KINGSLEY ST | 2014, 2010, 2008, 2001, 1998, 1996, 1992, 1985, 1980, 1935, 1925 |

# APPENDIX F

## HISTORIC TOPOGRAPHIC MAPS

1200 Jefferson Avenue

1200 Jefferson Avenue

Buffalo, NY 14208

Inquiry Number: 4990067.4

July 11, 2017

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

07/11/17

**Site Name:**

1200 Jefferson Avenue
1200 Jefferson Avenue
Buffalo, NY 14208
EDR Inquiry # 4990067.4

**Client Name:**

TurnKey Environmental Restoration, LLC.
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218
Contact: Chester Hochreiter

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by TurnKey Environmental Restoration, LLC. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

***Search Results:***

**P.O.#** NA
**Project:** 1200 Jefferson Avenue

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 42.907913 42° 54' 28" North |
| **Longitude:** | -78.854359 -78° 51' 16" West |
| **UTM Zone:** | Zone 17 North |
| **UTM X Meters:** | 675151.66 |
| **UTM Y Meters:** | 4752822.13 |
| **Elevation:** | 639.46' above sea level |

**Maps Provided:**

2013
1965
1950
1948
1946, 1949
1901
1894

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## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2013 Source Sheets



Buffalo NW

7.5-minute, 24000



Buffalo NE

7.5-minute, 24000

### 1965 Source Sheets



Buffalo NE

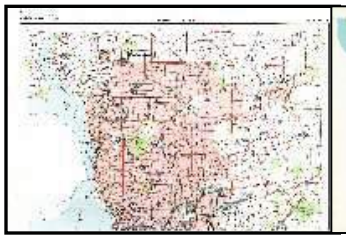
7.5-minute, 24000
Aerial Photo Revised 1942



Buffalo NW

7.5-minute, 24000
Aerial Photo Revised 1942

### 1950 Source Sheets



BUFFALO VICINITY 1 OF 2

7.5-minute, 24000



Buffalo NW

7.5-minute, 24000
Aerial Photo Revised 1942



Buffalo NE

7.5-minute, 24000
Aerial Photo Revised 1942

### 1948 Source Sheets



Buffalo NE

7.5-minute, 24000
Aerial Photo Revised 1942

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1946, 1949 Source Sheets



BUFFALO NE

7.5-minute, 25000



BUFFALO NW

7.5-minute, 25000

### 1901 Source Sheets



Buffalo

15-minute, 62500

### 1894 Source Sheets

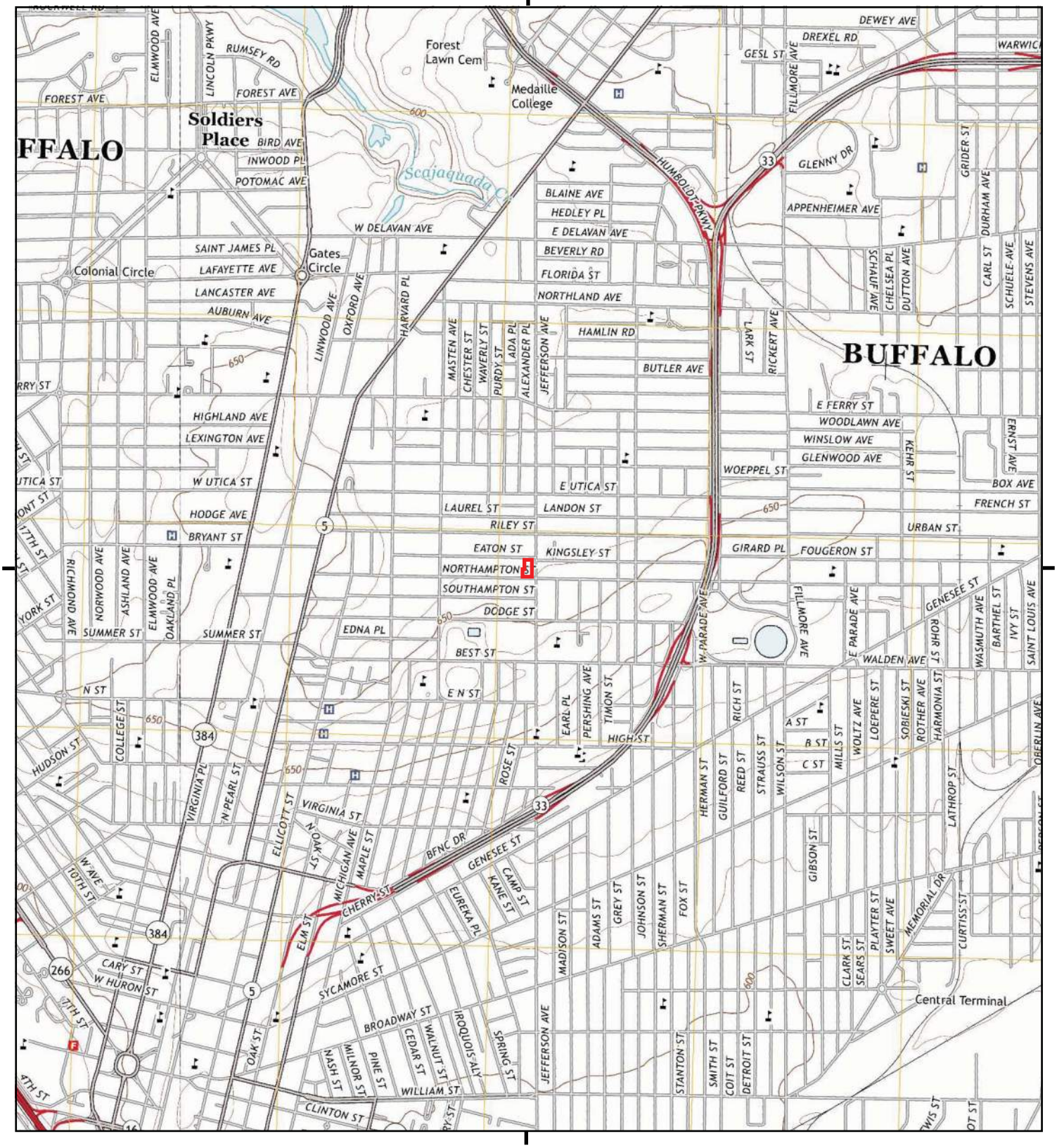


Buffalo

15-minute, 62500

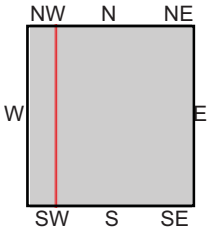
# Historical Topo Map

2013




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



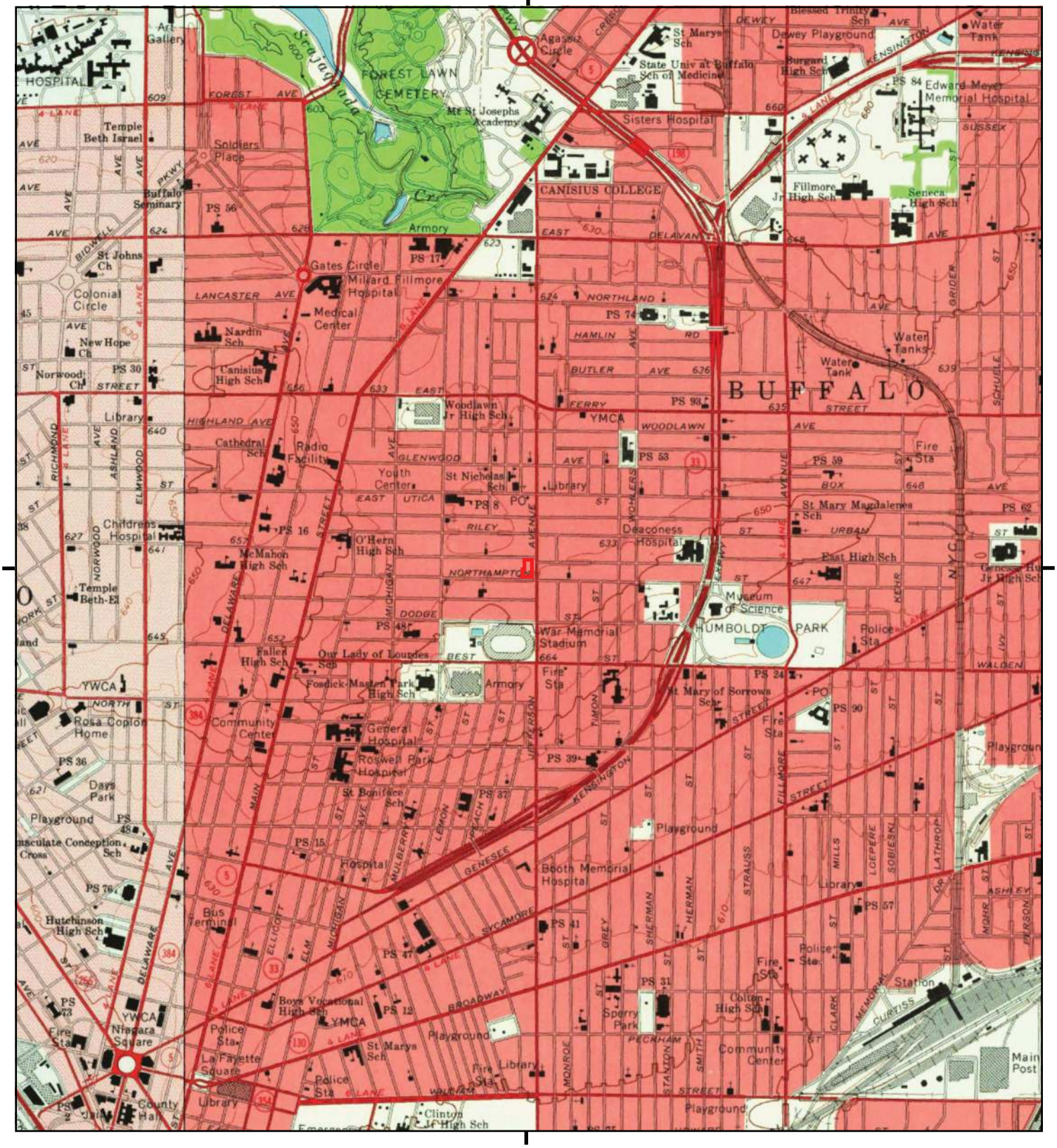

TP, Buffalo NE, 2013, 7.5-minute
NW, Buffalo NW, 2013, 7.5-minute

SITE NAME: 1200 Jefferson Avenue
ADDRESS: 1200 Jefferson Avenue
Buffalo, NY 14208
CLIENT: TurnKey Environmental Restoration, LLC

N

# Historical Topo Map

1965




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

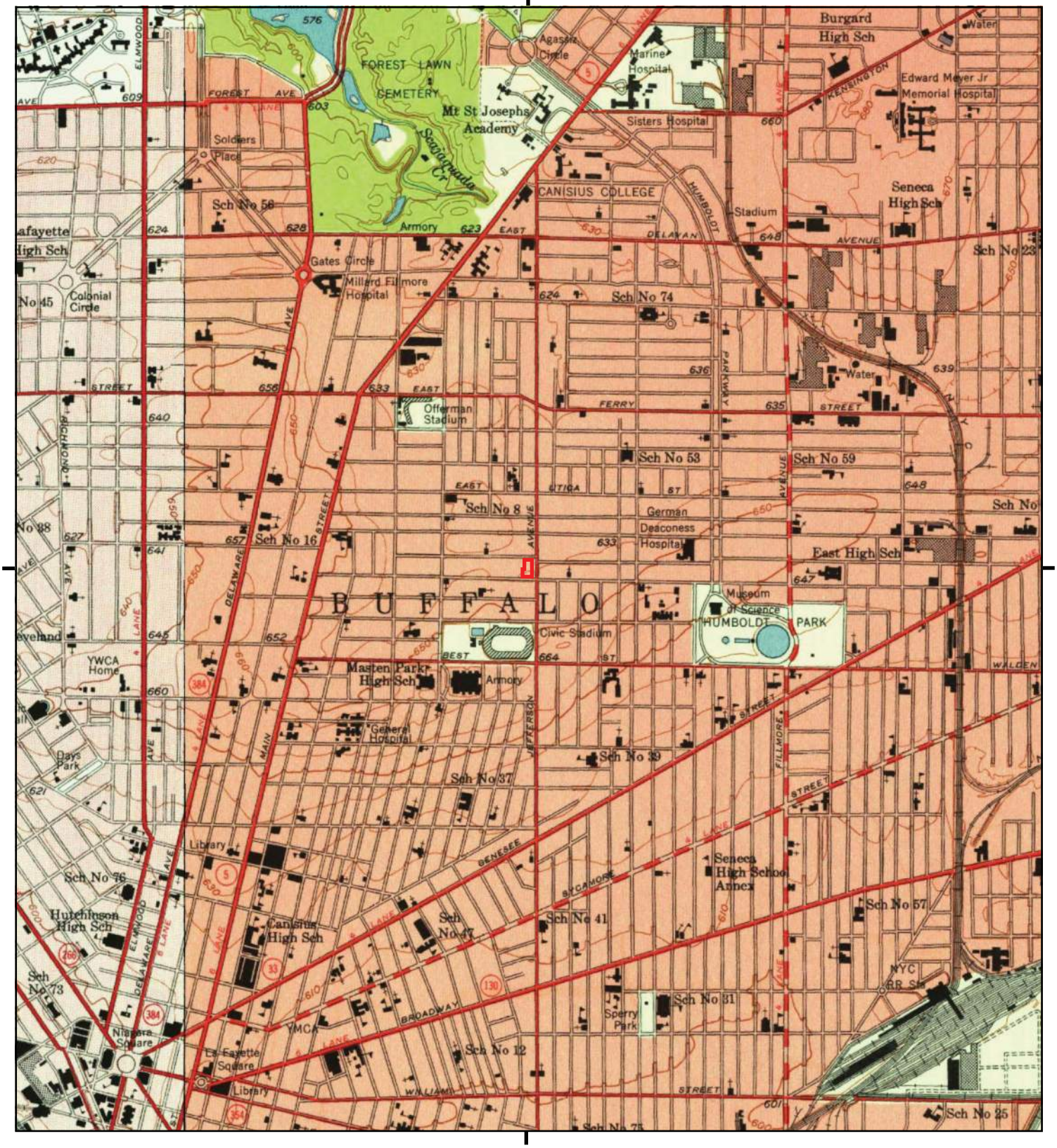
TP, Buffalo NE, 1965, 7.5-minute
NW, Buffalo NW, 1965, 7.5-minute

SITE NAME: 1200 Jefferson Avenue
ADDRESS: 1200 Jefferson Avenue
Buffalo, NY 14208
CLIENT: TurnKey Environmental Restoration, LLC

N

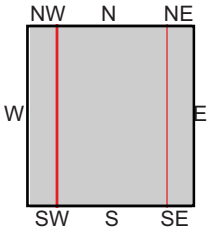
# Historical Topo Map

1950




This report includes information from the following map sheet(s).

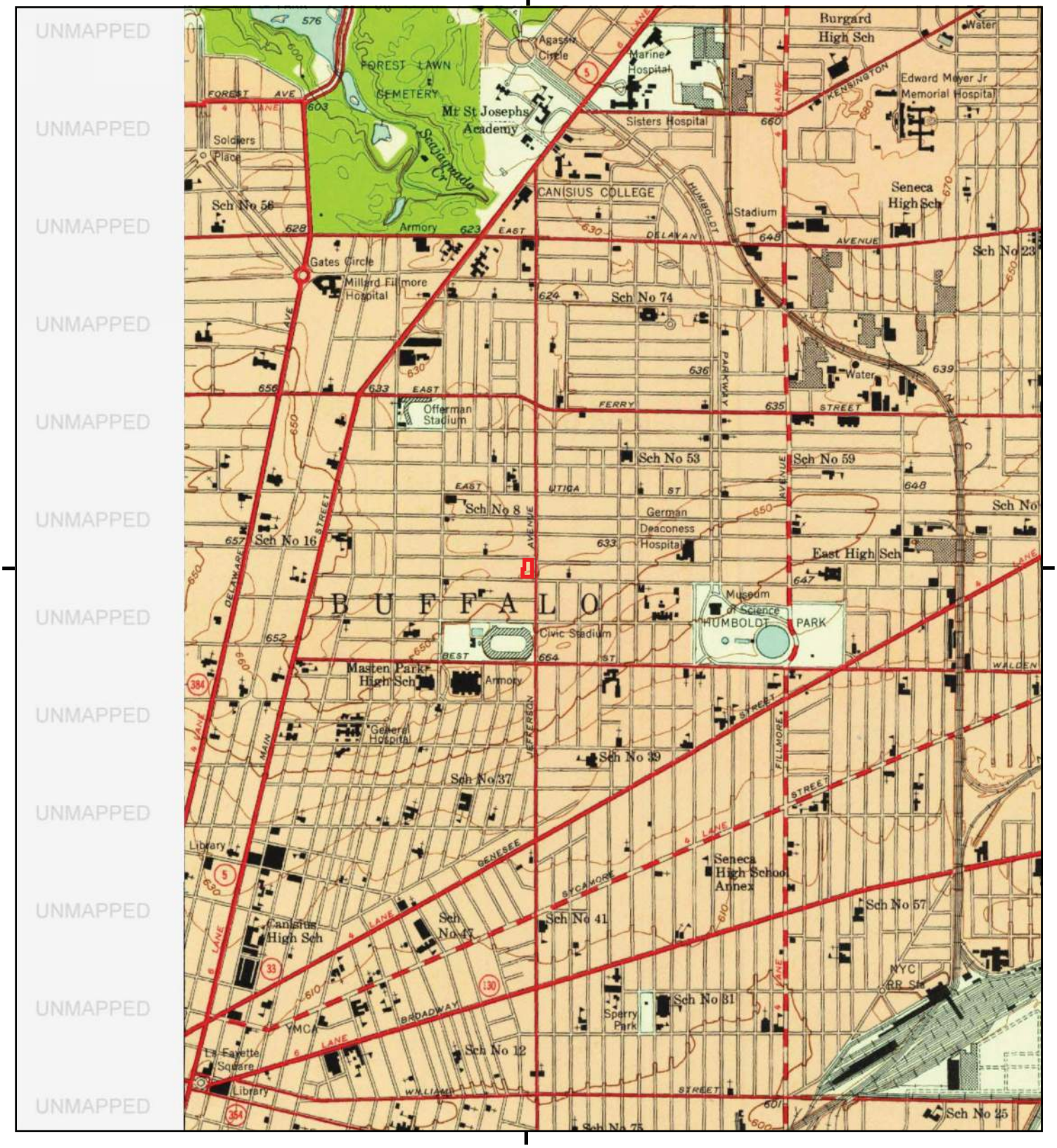
0 Miles 0.25 0.5 1 1.5




TP, BUFFALO VICINITY 1 OF 2, 1950, 7.5-minute
NW, Buffalo NW, 1950, 7.5-minute
TP, Buffalo NE, 1950, 7.5-minute

SITE NAME: 1200 Jefferson Avenue
ADDRESS: 1200 Jefferson Avenue
Buffalo, NY 14208
CLIENT: TurnKey Environmental Restoration, LLC

N




This report includes information from the following map sheet(s).

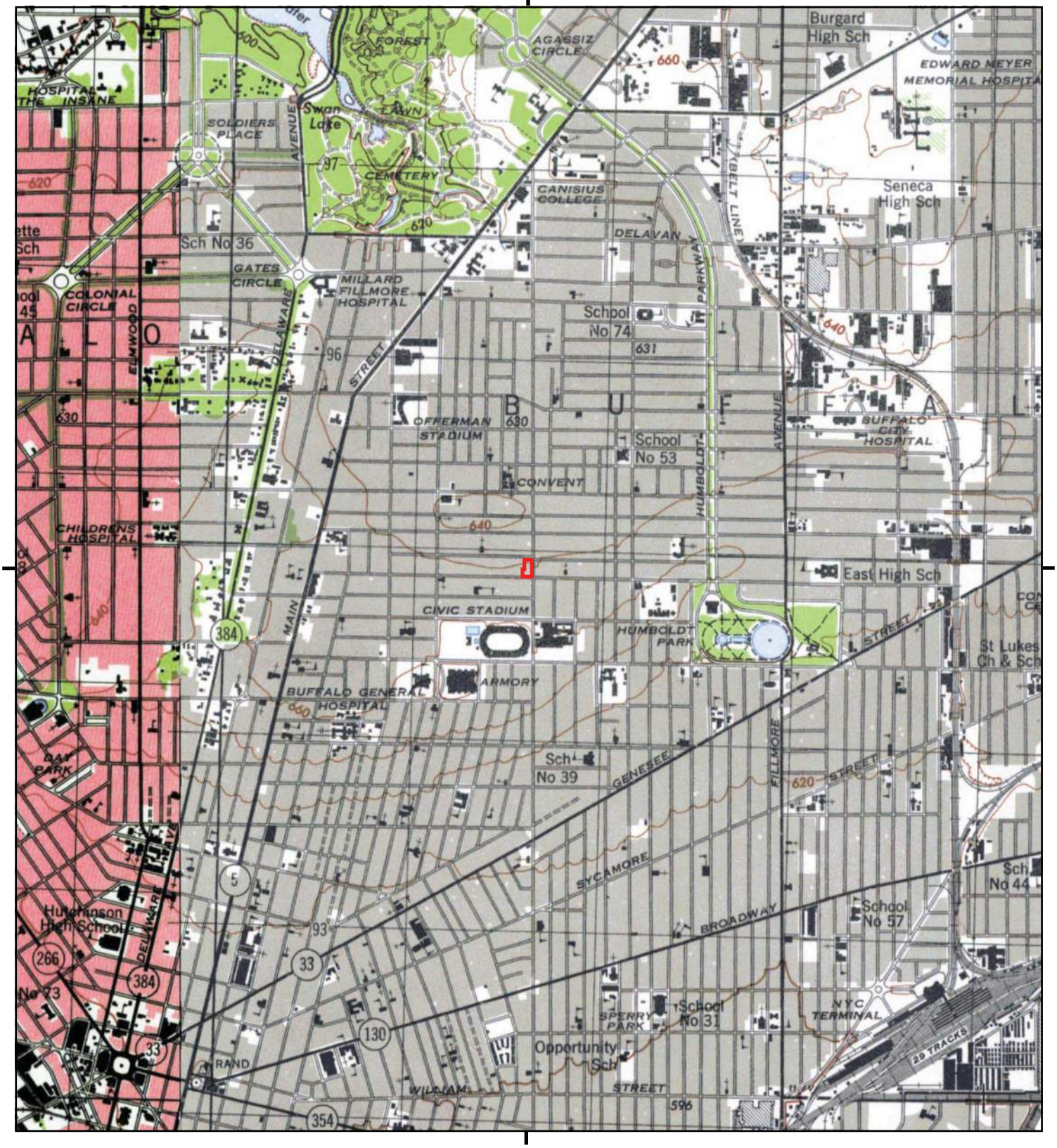
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Buffalo NE, 1948, 7.5-minute

SITE NAME: 1200 Jefferson Avenue
ADDRESS: 1200 Jefferson Avenue
Buffalo, NY 14208
CLIENT: TurnKey Environmental Restoration, LLC

N




This report includes information from the following map sheet(s).

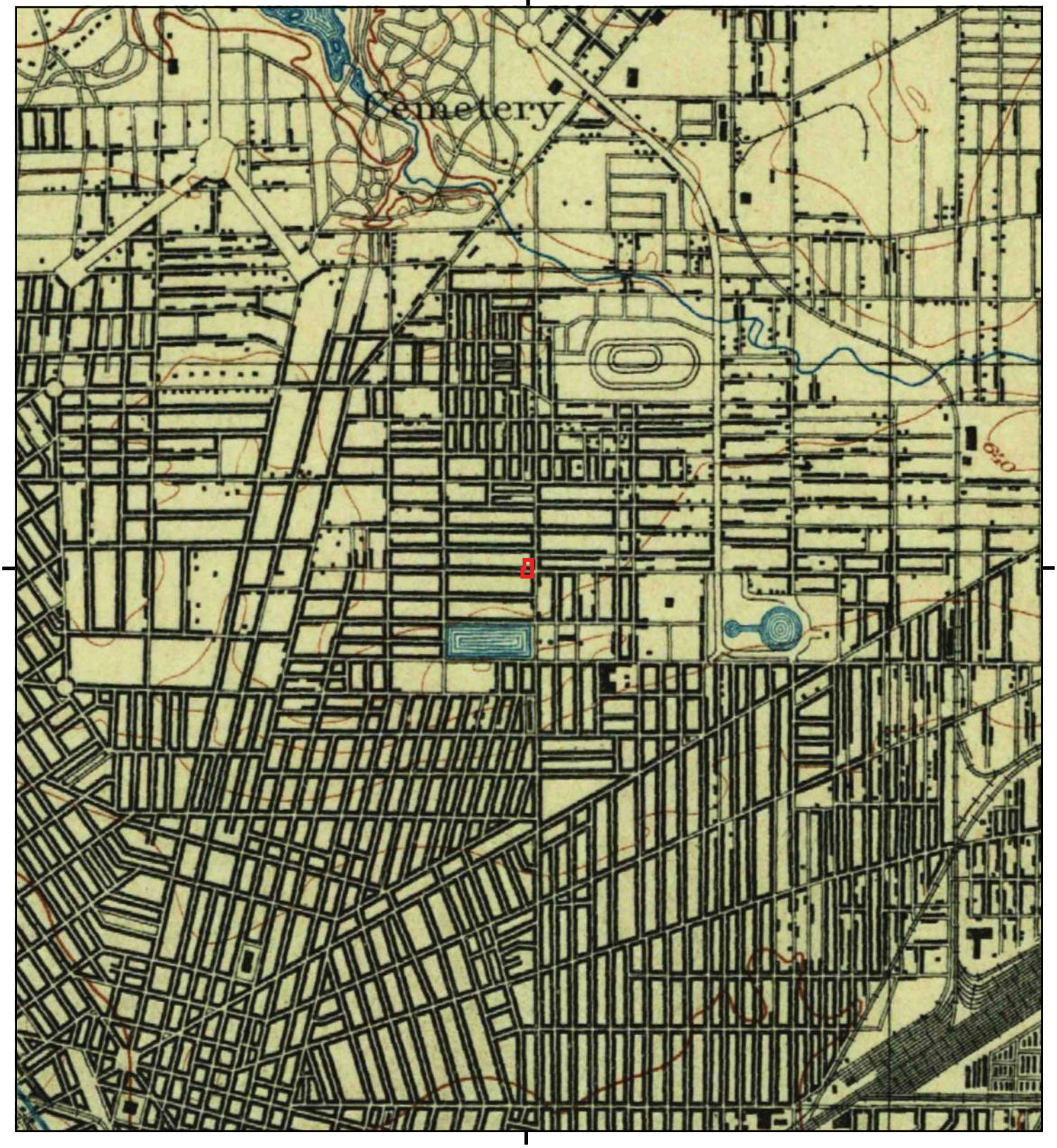
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, BUFFALO NE, 1946, 7.5-minute
W, BUFFALO NW, 1949, 7.5-minute

SITE NAME: 1200 Jefferson Avenue
ADDRESS: 1200 Jefferson Avenue
Buffalo, NY 14208
CLIENT: TurnKey Environmental Restoration, LLC

N




This report includes information from the following map sheet(s).

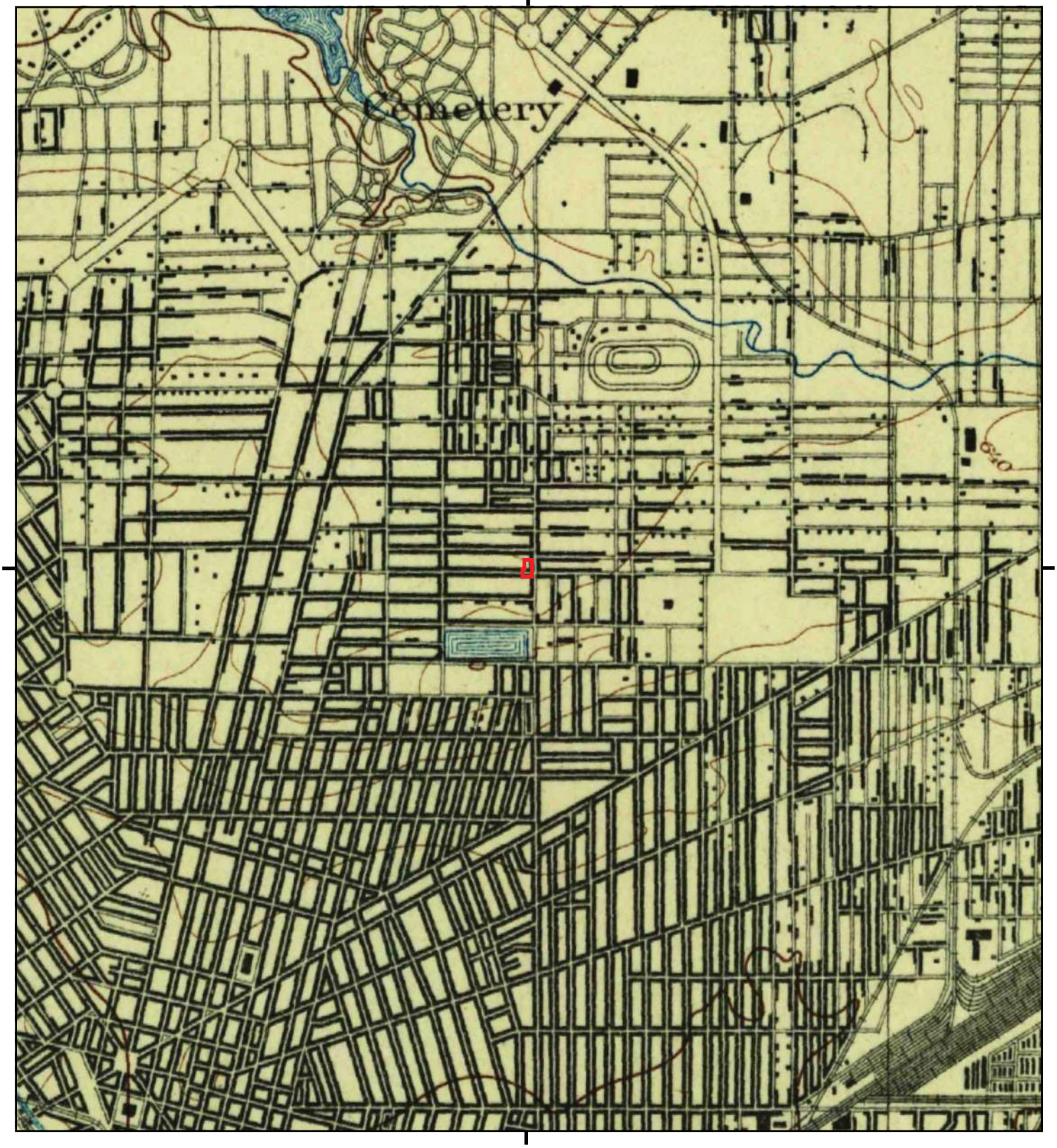
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Buffalo, 1901, 15-minute

SITE NAME: 1200 Jefferson Avenue
ADDRESS: 1200 Jefferson Avenue
Buffalo, NY 14208
CLIENT: TurnKey Environmental Restoration, LLC

N




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Buffalo, 1894, 15-minute

SITE NAME: 1200 Jefferson Avenue
ADDRESS: 1200 Jefferson Avenue
Buffalo, NY 14208
CLIENT: TurnKey Environmental Restoration, LLC

N

# APPENDIX G

## MUNICIPAL RECORDS

TURNKEY ENVIRONMENTAL RESTORATION LLC

# MUNICIPAL RECORD REVIEW INFORMATION

PROJECT#: 1200 JEFFERSON DATE 1/16/18

COMPLETE SITE ADDRESS(S) 1222 JEFFERSON

MUNICIPALITY: *City, Town, Village, Township* of BUFFALO

HISTORIC or AKA ADDRESS(s): _____

| **Assessor's Office** (*Obtain Copy of Tax Map if not available online*) **DATE:** |
|---|
| SBL No./Parcel ID 100.57-2-33 |
| Current Owner(s): 1200 JEFFERSON PROPERTIES LLC DESC 1: SOUTH COR EATON |
| |
| Past Owner(s) 1200 JEFFERSON PROPERTIES (CURRENT) (9/12/16); JEFF-NORTH CORP (PAST) - 9/12/16 SALE |
| JEFF-NORTH CORP (CURRENT); CLARIC BOND (PAST) - 1/6/04 SALE *SEE BELOW |
| Parcel Size (acres) 33 x 132 |
| Natural-gas, sewer, electric, water (circle those that apply) |
| SPECIAL DISTRICT: SEWER |
| Additional site info. (include building construction dates, sizes, additions, etc. for current and historic bldgs) |
| |
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| |
| |
| |

| **Building/Zoning/Code Enforcement** (review entire property file and make copies where appropriate (i.e., tanks, occupants) Provide documentation summary below. **DATE:** |
|---|
| PROP CLASS: VACANT COMM (USED AS 298 NON-CONTRIB) |
| ZONING CODE: H-3E URBNBHD-M |
| LAND TYPE: PRIMARY (01) 4356 ft |
| |
| CLARK BOND (CURRENT); ANGELICO HEALTHCARE (PAST) - 05/04/01 SALE |
| ANG... (CURRENT); PENDRICK LAUNDRY (PAST) - 10/11/94 SALE |
| PEND... (CURR); CITY OF BUFFALO PE (?) (PAST) - 6/1/90 SALE |
| |

# *TURNKEY ENVIRONMENTAL RESTORATION, LLC*
## MUNICIPAL RECORD REVIEW INFORMATION

Include information from record reviews completed at other offices than those listed above (i.e., Fire Prevention Office)

| **Office:**<br>**DATE:** |
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TURNKEY ENVIRONMENTAL RESTORATION, LLC

# MUNICIPAL RECORD REVIEW INFORMATION

PROJECT#: 1200 JEFFERSON DATE 1/16/18

COMPLETE SITE ADDRESS(S) 1218 JEFFERSON

MUNICIPALITY: *City, Town, Village, Township* of BUFFALO

HISTORIC or AKA ADDRESS(s): _____

| **Assessor's Office** (*Obtain Copy of Tax Map if not available online*)<br>**DATE:** |
|---|
| SBL No./Parcel ID 100.57-2-34 |
| Current Owner(s): 1200 JEFFERSON PROPERTIES LLC DESC 1: 33 S EATON |
| |
| Past Owner(s) 1200 JEFFERSON PROPERTIES (CURRENT 9/12/16) - JEFF-NORTH CORP (PAST) - 9/12/16 SALE |
| JEFF-NORTH CORP (CURRENT 2/1/06) - JESSIE JACKSON (PAST) - 2/1/06 SALE |
| Parcel Size (acres) 30 x 133 |
| Natural-gas, sewer, electric, water (circle those that apply) |
| SPECIAL DISTRICT: SEWER |
| Additional site info. (include building construction dates, sizes, additions, etc. for current and historic bldgs) |
| |
| |
| |
| |
| |
| |

| **Building/Zoning/Code Enforcement** (review entire property file and make copies where appropriate (i.e., tanks, occupants) Provide documentation summary below.<br>**DATE:** |
|---|
| PROP CLASS: VACANT COMM (USED AS 298: NON-CONTRIB |
| ZONING CODE: N-3E URBNBHD-M |
| LAND TYPE: PRIMARY (01) 3960 # |
| |
| |
| |
| |
| |

# *TURNKEY ENVIRONMENTAL RESTORATION, LLC*
## MUNICIPAL RECORD REVIEW INFORMATION

Include information from record reviews completed at other offices than those listed above (i.e., Fire Prevention Office)

| **Office:**<br>**DATE:** |
|---|
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TURNKEY ENVIRONMENTAL RESTORATION LLC

# MUNICIPAL RECORD REVIEW INFORMATION

PROJECT#: 1200 JEFFERSON DATE 1/16/18

COMPLETE SITE ADDRESS(S) 1216 JEFFERSON

MUNICIPALITY: *City, Town, Village, Township* of BUFFALO

HISTORIC or AKA ADDRESS(s): _____

| **Assessor's Office** (*Obtain Copy of Tax Map if not available online*)<br>**DATE:** |
|---|
| SBL No./Parcel ID 100.57-2-35 |
| Current Owner(s): 1200 JEFFERSON PROPERTIES LLC DESC 1: 63 S EATON |
| |
| Past Owner(s) JEFF-NORT (PRIOR) CORP (~~PRIOR~~) - SALE 1200 JEFFERSON PROPERTIES (CURRENT 9/12/16) - SALE 9/12/16 |
| RACHEL MATTEN (PRIOR); PENDRICK LAUNDRY (CURRENT 10/7/94) - SALE 10/7/94 INC. |
| Parcel Size (acres) 30 x 134 |
| Natural-gas, sewer, electric, water (circle those that apply) |
| SPECIAL DISTRICT: SEWER |
| Additional site info. (include building construction dates, sizes, additions, etc. for current and historic bldgs) |
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| **Building/Zoning/Code Enforcement** (review entire property file and make copies where appropriate (i.e., tanks, occupants) Provide documentation summary below.<br>**DATE:** |
|---|
| PROP CLASS: VACANT COMM (USED AS 298 - NON-CONTRIB) |
| ZONING CODE: N-3E VRBNHD-M |
| LAND TYPE: PRIMARY (01) 4020 ft |
| VACANTS |
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# *TURNKEY ENVIRONMENTAL RESTORATION, LLC*
## MUNICIPAL RECORD REVIEW INFORMATION

Include information from record reviews completed at other offices than those listed above (i.e., Fire Prevention Office)

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TURNKEY ENVIRONMENTAL RESTORATION LLC

# MUNICIPAL RECORD REVIEW INFORMATION

PROJECT#: 1200 JEFFERSON DATE 1/16/18
COMPLETE SITE ADDRESS(S) 1212 JEFFERSON

MUNICIPALITY: *City, Town, Village, Township* of BUFFALO

HISTORIC or AKA ADDRESS(s): _____

| **Assessor's Office** (*Obtain Copy of Tax Map if not available online*)<br>**DATE:** |
|---|
| SBL No./Parcel ID 100.57-2-36 |
| Current Owner(s): 1200 JEFFERSON PROPERTIES LLC DESC 1: ~~NORTH COR NORTHAMPTON~~ 93 S EATON |
| Past Owner(s) JEFF-NORTH CORP (9/12/16) |
| |
| Parcel Size (acres) 42 x 135 |
| Natural gas, sewer, electric, water (circle those that apply) |
| SPECIAL DISTRICT: SEWER |
| Additional site info. (include building construction dates, sizes, additions, etc. for current and historic bldgs) |
| BUILDING DATE: 1938 |
| - 2-4 STORY WAREHOUSE WOOD M; CONST QUAL 2.0 AVG; COND 3 NORMAL |
| - PERIM 676 |
| - # 10668 (0 BSMT) |
| - 2 STORIES; 14' STORY HEIGHT |
| |

| **Building/Zoning/Code Enforcement** (review entire property file and make copies where appropriate (i.e., tanks, occupants) Provide documentation summary below.<br>**DATE:** |
|---|
| PROP CLASS: OTHER STORAGE (USED AS ROW STORAGE) |
| ZONIN CODE: H3E URBNBHD-M |
| LAND TYPE: PRIMARY (01) 5670 # |
| COMM USE: F05 ROW STRG. - 10668 RENTABLE |
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# *TURNKEY ENVIRONMENTAL RESTORATION, LLC*
## MUNICIPAL RECORD REVIEW INFORMATION

Include information from record reviews completed at other offices than those listed above (i.e., Fire Prevention Office)

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TURNKEY ENVIRONMENTAL RESTORATION LLC

# MUNICIPAL RECORD REVIEW INFORMATION

PROJECT#: 1200 JEFFERSON DATE 1/16/18
COMPLETE SITE ADDRESS(S) 1200 JEFFERSON

MUNICIPALITY: *City, Town, Village, Township* of BUFFALO

HISTORIC or AKA ADDRESS(s): 1200 JEFFERSON AVE
HIST: 1198 JEFFERSON

| **Assessor's Office** (*Obtain Copy of Tax Map if not available online*)<br>**DATE:** |
|---|
| SBL No./Parcel ID 100.57-2-37 |
| Current Owner(s): 1200 JEFFERSON PROPERTIES LLC DESC 1: NORTH COR NORTHAMPTON |
| |
| Past Owner(s) JEFF-NORT CORP (9/12/16) |
| |
| Parcel Size (acres) 0.42 AC. (135 x 138) |
| Natural gas, sewer, electric, water (circle those that apply) |
| * SPECIAL DISTRICT: SEWER |
| Additional site info. (include building construction dates, sizes, additions, etc. for current and historic bldgs) |
| LP4 PAVEMENT 2078 ft BUILT 1950 |
| BUILDING DATE (1940) |
| - 1 STORY MFG STEEL; CONST QUAL 2.0 AVG; COND. 3 NORMAL |
| - PERIM. 523 - 75% SPRINKLER |
| - ft 14903 (0 BSMT) |
| - 1 STORY 15 FT |

| **Building/Zoning/Code Enforcement** (review entire property file and make copies where appropriate (i.e., tanks, occupants) Provide documentation summary below.<br>**DATE:** |
|---|
| *TK4 - UNDERGROUND TANK 550 ft; CONSTRUCTION GRADE: C AVERAGE; BUILT 1945 (BUILT 1954) SHOWN IN SHEA TAB OVERALL CONDITION: 3 NORMAL. |
| PROP CLASS: OTHER STORAGE (USED AS ROW STORAGE) |
| ZONING CODE: NBE URBNBHD-M |
| LAND TYPE: PRIMARY (01) 18360 ft |
| COMM USE: 105 ROW STORAGE 1847 ft (1 UNIT) - RENTABLE 52 FOOTAGE<br>104 LIGHT MANUFACTURING 13056 ft (1 UNIT)<br>303 PARKING LOT 2078 ft (9 STALLS) |
| |

# *TURNKEY ENVIRONMENTAL RESTORATION, LLC*
## MUNICIPAL RECORD REVIEW INFORMATION

Include information from record reviews completed at other offices than those listed above (i.e., Fire Prevention Office)

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TURNKEY ENVIRONMENTAL RESTORATION LLC

# MUNICIPAL RECORD REVIEW INFORMATION

PROJECT#: 1200 JEFFERSON DATE 1/16/18
COMPLETE SITE ADDRESS(S) 328 NORTHAMPTON

MUNICIPALITY: *City, Town, Village, Township* of BUFFALO

HISTORIC or AKA ADDRESS(s): _____

| **Assessor's Office** (*Obtain Copy of Tax Map if not available online*)<br>**DATE:** |
|---|
| SBL No./Parcel ID 100.57-2-38 |
| Current Owner(s): 1200 JEFFERSON PROPERTIES LLC DESC 1: 138 W JEFFERSON |
| |
| Past Owner(s) ~~NONE~~ JEFF-NORTH CORP |
| |
| Parcel Size (acres) 35x135 |
| Natural gas, sewer, electric, water (circle those that apply) |
| + SPECIAL DISTRICT: SEWER |
| Additional site info. (include building construction dates, sizes, additions, etc. for current and historic bldgs) |
| LP4 PAVEMENT: 3973 ft |
| |
| |
| |
| |
| |

| **Building/Zoning/Code Enforcement** (review entire property file and make copies where appropriate (i.e., tanks, occupants) Provide documentation summary below.<br>**DATE:** |
|---|
| PROP CLASS: VACANT COMM |
| ZONING CODE: N-3R URBNBHD-R |
| LAND TYPE PRIMARY (01) 4725 ft |
| COMM USE: 303 PARKING LOT 3973 ft 17 STALLS |
| |
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# *TURNKEY ENVIRONMENTAL RESTORATION, LLC*
## MUNICIPAL RECORD REVIEW INFORMATION

Include information from record reviews completed at other offices than those listed above (i.e., Fire Prevention Office)

| **Office:**<br>**DATE:** |
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# APPENDIX H

## SITE RECONNAISSANCE PHOTOS

# SITE PHOTOGRAPHS

**Photo 1:**



**Photo 2:**



**Photo 3:**



**Photo 4:**



Photo 1: View of the east wall of the existing building (looking south).

Photo 2: View of the north wall of the building (looking west).

Photo 3: View of the west wall of the building (looking north) and asphalt paved area/lot.

Photo 4: View of the inactive vent stack along the west building wall.

# SITE PHOTOGRAPHS

**Photo 5:**



**Photo 6:**



**Photo 7:**

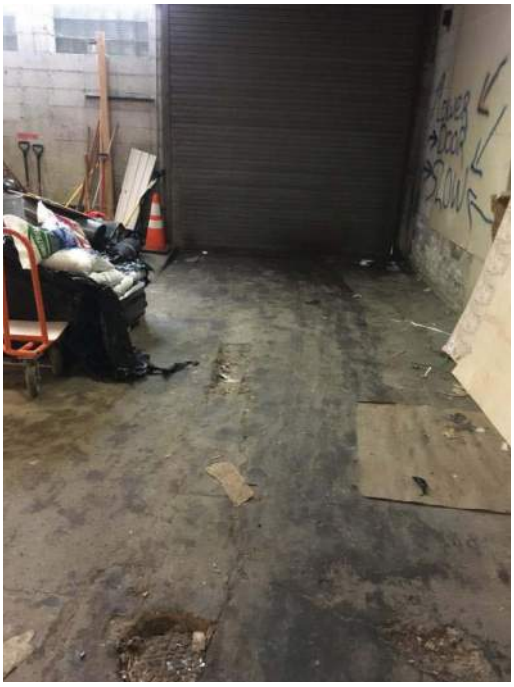


**Photo 8:**



Photo 5: View of the suspected former UST area east of the building proximate to Smart Ride (note patched concrete).

Photo 6: View of the interior of Sinatra's maintenance warehouse.

Photo 7: View of the concrete disturbances suspected to be associated with a sewer cleanout/floor drain system.

Photo 8: View of the automotive repair area (Smart Ride).

# SITE PHOTOGRAPHS

**Photo 9:**



**Photo 10:**



**Photo 11:**



**Photo 12:**



Photo 9: View of typical black staining noted within the automotive repair area.

Photo 10: View of the black staining noted within and proximate to the floor drain in the automotive repair area.

Photo 11: View of the waste vehicle tires and televisions noted along the west exterior wall.

Photo 12: View of the vacant land on the northern portion of the Site.

# APPENDIX I

## QUESTIONNAIRES

**Phase I Environmental Site Assessment**
**User Questionnaire**

**SITE NAME:** 1200 Jefferson Street Site
**ADDRESS:** 1200 Jefferson Street and Associated Parcels, Buffalo, NY

1.) Are you aware of any environmental cleanup liens against the Site that have been filed or recorded in a registry under federal, tribal, state or local law?

☑ No ☐ Yes Explain: _____

2.) Are you aware of any engineering controls, land use restrictions or institutional controls that are in place and/or that have been filed or recorded in a registry under federal, tribal, state or local law?

☑ No ☐ Yes Explain: _____

3.) As the User of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

☑ No ☐ Yes Explain: _____

4.) Does the purchase price being paid for this property reasonably reflect fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

☐ No ☑ Yes If No, Explain: _____

5.) Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as User,

a. Do you know the past use of the property?
☐ No ☑ Yes Explain: Taxi Service, Dry cleaner

b. Do you know of specific chemicals that are present or once were present at the property?
☑ No ☐ Yes Explain: _____

c. Do you know of spills or other chemical releases that have taken place at the property?
☑ No ☐ Yes Explain: _____

d. Do you know of any environmental cleanup activities that have taken place at the property?
☑ No ☐ Yes Explain: _____

6.) As the User of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

☑ No ☐ Yes Explain: _____

**CERTIFICATION OF RESPONSES**

I, Matt Connors, the user of the Phase I ESA being completed for this Site, do hereby attest and certify that to the best of my knowledge, the answers and information provided in this questionnaire, are true and accurate. I have not willfully withheld information that may be pertinent to the questions contained herein and have not distorted or misrepresented the facts regarding the content of this questionnaire.

Signature: _____ Date: 3/30/18

Title: VP Development

ADDRESS & (S-B-L)
328 NORTHAMPTON (100.57-2-38)
1200 JEFFERSON (100.57-2-37)
1212 JEFFERSON (100.57-2-36)
1216 JEFFERSON (100.57-2-35)
1218 JEFFERSON (100.57-2-34)
1222 JEFFERSON (100.57-2-33)

**Phase I Environmental Site Assessment**
**Environmental Questionnaire**

1) **Site Information**
Site Name: 1200 Jefferson Street Site
Address: 1200 Jefferson Street and Associated Parcels, Buffalo, NY
6 PARCELS TOTAL
Business Owner/Operator: 1200 JEFFERSON PROPERTIES LLC
Title: Years in Position: SINCE SEPTEMBER 2016

2) **Size & Nature of Operation**
Number of Buildings: 2 Total Sq. Ft.: 25,571 SF Property Size (acres): 0.94 ACRES (40,847 SF)

Description of Operations:
STORAGE + WAREHOUSING

Current Tenants:
FFG ENTERPRISES (TAXI SERVICE)
SINATRA + COMPANY WAREHOUSE
What is the intended use of the subject property and/or structures located on the subject property?
STORAGE + LIGHT MANUFACTURING

3) **What are the past uses/occupants of this facility/property & dates of occupancy?**
1) ZEE'S PROPERTY SERVICES
2) TRUE VINE NEW LIFE CHURCH
3)

4) **Utilities**
Floor Drains: Discharge Point:
Sump Pumps: Discharge Point:
Storm Drains: Discharge Point:
Other:
On-site utilities:
When was subject property connected to municipal sewer, if currently connected?

5) **List and describe the stormwater and wastewater discharges from the facility, including the sources, discharge points, and receiving waters or facility.**

6) **What is the nature of the wastes generated on-site (including hazardous/ regulated wastes, the disposal methods and waste disposal vendors)?**

How is it stored on-site?
Who collects the waste?

7) **Has the refuse service ever refuse to collect the waste?**
☐ No ☐ Yes Explain:

**8) Have there ever been any complaints or notices of violations about your facility?**

☐ No ☐ Yes Nature:

**9) What type of HVAC (Heating, Ventilation & Air Conditioning) system does this facility have (ex; natural gas, electric, heating oil, propane, etc. /forced air, radiant, HVAC, etc.)?**

**10) Was this facility ever heated with oil?**

☐ No ☐ Yes When?

Method of Storage:

**11) Was this facility ever a car repair shop, paint shop, or gas station?**

☐ No ☐ Yes When?

Owner:

**12) Are there any aboveground or underground storage tanks?**

☐ No ☐ Yes

Tank ID#:

☐ UST ☐ AST Capacity: Product:

Location:

Notable Information:

Tank ID#:

☐ UST ☐ AST Capacity: Product:

Location:

Notable Information:

Tank ID#:

☐ UST ☐ AST Capacity: Product:

Location:

Notable Information:

Do the tanks comply with December 1998 EPA requirements (including overfill protection, monitoring systems, cathodic protection/double walled tank & piping, etc.)?

☐ No ☐ Yes

When were the tanks leak tested?

Are the tanks registered?

Leak detection devices in place? ☐ No ☐ Yes Type of system?

Monitoring reports available? ☐ No ☐ Yes Please supply reports.

**13) Were there ever, to your knowledge, any underground or aboveground tanks located on-site previously?**

☐ No ☐ Yes When?

Are closure reports available? ☐ No ☐ Yes

**14) What type of chemicals are used in the operations (attach list)?**
List hazardous waste/material storage locations:

**15) List the environmental or safety reports to be submitted to regulatory agencies, the frequency of such reports, and the agencies to which they are submitted.**

**16) Do you have any federal, state, or local permits for the following?**

| | | |
|---|---|---|
| SPDES: | ☐ No ☐ Yes | ID #: |
| RCRA: | ☐ No ☐ Yes | ID #: |
| EPA ID: | ☐ No ☐ Yes | ID #: |
| Title V Air Emissions: | ☐ No ☐ Yes | ID #: |

**17) Have you ever transported Hazardous waste from this site?**
☒ No ☐ Yes manifests available? ☐ No ☐ Yes

**18) Are PCBs or PCB-containing equipment present on the subject property, including light ballasts or other equipment?**
☐ No ☐ Yes

| | |
|---|---|
| Location: | Type of Equipment: |
| Location: | Type of Equipment: |
| Location: | Type of Equipment: |

**19) Are there any transformers located on-site?**
☐ No ☐ Yes Are they utility owned? ☐ No ☐ Yes Utility Company or owner:

**20) Do you treat or dispose of any waste materials on-site including incineration, neutralization, or landfilling?**
☒ No ☐ Yes Type:

**21) Do you store any hazardous/regulated wastes on-site for transfer to a disposal facility?**
☐ No ☐ Yes Waste recipient: Permit #:

**22) Have you ever been the subject of an enforcement action by any federal, date, or local agency regarding environmental issues?**
☒ No ☐ Yes Nature of action:

**23) Have there ever been any spills, unpermitted discharges, or releases of hazardous or contaminated materials at or near this facility?**
☒ No ☐ Yes Nature of release:

**24) Are there any stained, stressed or dead vegetation surfaces on-site?**
☐ No ☐ Yes Suspected cause:

**25) Are you presently under any federal, state, or local consent orders, decrees or causes of action?**
☒ No ☐ Yes Are they pending? ☐ No ☐ Yes

**26) Have you ever allowed or permitted any other entity to dump, store, dispose, transport, bury, incinerate, or landfill any materials at the site?**

☒ No ☐ Yes Who? When?

**27) Does anyone other than your operations utilize this site presently?**

☐ No ☐ Yes Who?
Nature of their operations:

**28) Have you ever experienced any problems from odors, drainage, storage practices, or operations from your neighbors?**

☐ No ☐ Yes Nature of the problem:
Actions taken to correct the problem:

**29) Are you aware of any environmental liens on the property?**

☒ No ☐ Yes Nature:

**30) Was there ever a septic tank, leach field injection well, or dry well located on the property?**

☐ No ☐ Yes When?

**31) Are there, or were there ever any water wells located on-site?**

☐ No ☐ Yes When?

**32) Are there any dry cleaning operations conducted on-site?**

☒ No ☐ Yes How long has dry cleaning been conducted on-site?
What is the current generation of machine used on-site?
How old is the current machine?
Was there a previous machine used on-site?

**33) Is there currently any X-ray developing or film developing conducted on-site?**

☒ No ☐ Yes Is there a silver recovery system in use? ☐ No ☐ Yes

**34) Do you have any specialized knowledge that would provide information regarding previous ownership or uses of the property that may be material to identifying recognized environmental conditions regarding the site?**

☒ No ☐ Yes Nature:

**35) What are the past and present uses of the properties adjacent to you (please include dates of occupancy)?**

| Direction | Current Use/ Occupant | Past Use/Occupants |
|---|---|---|
| North | VACANT CHURCH | |
| South | | |
| East | AUTOMOBILE SALES LOT (B.P. AUTO GROUP) | |
| West | VACANT RESIDENTIAL LOT (TEMPORARY GARAGES) | |

**36) Are there any pending, threatened or past litigation relevant to hazardous substances or petroleum products in, on or from the subject property?**

☒ No ☐ Yes Nature:

**37) Are there any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the subject property?**

☒ No ☐ Yes Nature:

**38)**

**Are there any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products related to this site?**

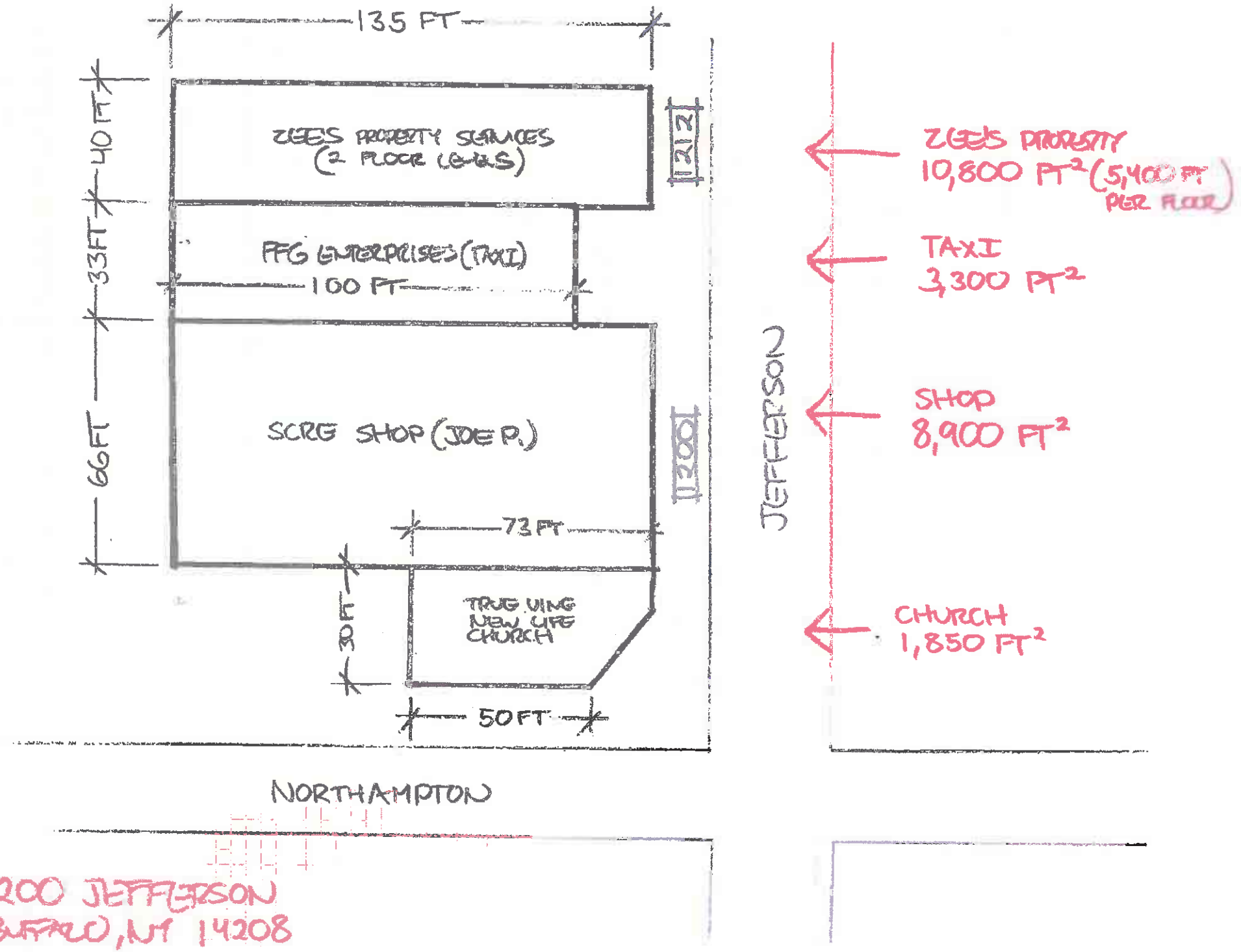
☒ No ☐ Yes Nature:

## CERTIFICATION OF RESPONSES

I,_____, the owner/operator and/or responsible person for this facility, do hereby attest and certify that to the best of my knowledge, the answers and information provided in this questionnaire, are true and accurate. I have not willfully withheld information that may be pertinent to the questions contained herein and have not distorted or misrepresented the facts regarding the content of this questionnaire.

Signature: Date: 2/19/18

Title: VP Development




1200 JEFFERSON
BUFFALO, NY 14208

# LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT

**1200 Jefferson Avenue Site**
**Buffalo, New York**

April 2018 0239-018-001

Prepared for:

**1200 Jefferson Properties, LLC**

Prepared By:

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218

# LIMITED PHASE II ENVIRONMENTAL INVESTIGATION REPORT
# 1200 Jefferson Avenue Site
# Buffalo, New York

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1.2 Site Description ..... 1
1.3 Previous Study ..... 2

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**5.0 LIMITATIONS ..... 8**

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# 1.0 INTRODUCTION

## 1.1 Background

TurnKey Environmental Restoration, LLC (TurnKey) performed a Limited Phase II Environmental Investigation on behalf of 1200 Jefferson Properties, LLC at the subject property located at 1200 Jefferson Avenue, City of Buffalo, Erie County, New York (see Figure 1). Historic operations on-Site include automobile repair and painting, dry cleaning and laundry service, paint and varnish shop, metal works shop, and likely presence of fill material related to demolished former buildings on Site since at least the 1920's. At least three (3) underground storage tanks (USTs) have been installed on-Site, with municipal records indicating an 8,000 gallon UST is closed in place beneath the existing building. Multiple NYS Department of Environmental Conservation (NYSDEC) Spill reports are associated with the property.

## 1.2 Site Description

The Site is located in a highly developed mixed use commercial and residential area of the City of Buffalo, Erie County, New York. The Site currently consists of six (6) adjoining parcels, located between Northampton Street and Eaton Street, totaling approximately 1 acre, including:

- 1200 Jefferson Avenue, SBL No. 100.57-2-37
- 1212 Jefferson Avenue, SBL No. 100.57-2-36
- 1216 Jefferson Avenue, SBL No. 100.57-2-35
- 1218 Jefferson Avenue, SBL No. 100.57-2-34
- 1222 Jefferson Avenue, SBL No. 100.57-2-33
- 328 Northampton Street, SBL No. 100.57-2-38

The Site includes one (1) existing building (1200 Jefferson), with vacant parcels on the north side of the Site, and alleyway (328 Northampton) on the west side (see Figure 2).

This Limited Phase II investigation was completed to further assess the former dry cleaning operations on-Site, NYSDEC Spills associated with the Site, former USTs and

recognized environmental conditions (RECs) identified in the recently completed Phase I Environmental Site Assessment (ESA) related to the historic use of the Site.

## 1.3 Previous Study

A Phase I Environmental Site Assessment (ESA) was completed by TurnKey for the Site March 2018). The following recognized environmental conditions ((RECs) were identified for the Site, including:

- Dry cleaning and laundry operations were identified on-Site in the existing building since at least the 1950's.
- Automobile repair and painting operations were identified on-Site since at least the 1920's
- Multiple USTs were identified on-Site since at least the 1950s. Municipal records indicate that an 8000 gal. UST was closed in-place beneath the existing building.
- Multiple NYSDEC Spill Incidents were identified for the Site (Nos. 8902796, 9305238 and 9501902), including one related to leaking USTs.
- An existing brick exhaust tower (stack) The vent stack is considered a REC due to the potential for remaining ash within the unit.
- Electronic wastes (i.e., light ballasts possibly containing PCBs) are considered RECs as such will require proper off-site disposal.
- The potential for miscellaneous urban fill materials exists on-Site due to its urban location and as former building areas have been brought to grade. The presence of urban fill material from unknown sources is considered a REC due to the potential for impacts. Historic adjacent automotive repair and gasoline station operations are considered RECs due to the potential for environmental impacts.

# 2.0 ENVIRONMENTAL SITE INVESTIGATION

## 2.1 Soil -Fill Investigation

On February 15-16, 2018, TurnKey's drilling subcontractor, Trec Environmental Inc. (Trec) mobilized a track-mounted drill rig to complete a total of 22 soil borings, identified as SB-1 through SB-22, at various locations across the Site (see Figure 3). Soil borings SB-1 through SB-6 were completed in accessible areas of the existing building, and SB-7 through SB-22 were completed across the exterior of the Site.

The soil borings were advanced using 1.5-inch diameter samplers that are 4-feet in length. Continuous sample cores were retrieved from the boring locations in clear PVC sleeves to allow for field characterization of the subsurface lithology and collection of soil/fill samples by TurnKey's Environmental Scientist. The retrieved soil-fill samples from each boring were screened using a photoionization detector (PID) and visual and/or olfactory observations were noted. Findings of the investigation are described below.

## 2.2 Groundwater Investigation

Two (2) soil boring locations (SB-1 and SB-11) were converted into temporary groundwater monitoring wells (TMW-1 and TMW-2). The temporary well was installed using one-inch diameter Schedule 40 PVC well screen and riser. A groundwater grab sample was collected from the temporary well utilizing a dedicated polyethylene bailer.

## 2.3 Laboratory Analysis

Ten (10) soil-fill samples, and two (2) groundwater samples were collected from select investigation locations across the Site. Collected samples were placed in pre-cleaned, laboratory provided sample containers using dedicated stainless steel sampling tools, and cooled to 4º C in the field, and transported under chain-of-custody command to a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified analytical laboratory.

Representative soil/fill and groundwater samples were collected and selectively analyzed for NYSDEC CP-51 List plus Target Compound List (TCL) volatile organic

compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and Resource Conservation and Recovery Act (RCRA) metals. Laboratory analytical results are presented below.

# 3.0 INVESTIGATION FINDINGS

Table 1 presents a summary of the field findings for the soil investigation. Tables 2 and 3 present a summary of the soil and groundwater sample analytical results. For comparison purposes, Table 2 presents soil cleanup objectives (SCOs) for each of the detected parameters as published in 6NYCRR Part 375. Groundwater sample results are summarized on Table 3 with comparison to Class GA Groundwater Quality Standards (GWQS) per NYSDEC T.O.G.S 1.1.1. A copy of the laboratory analytical data package is included in Appendix A.

## 3.1 Qualitative Soil-Fill Screening

Field evidence of grossly contaminated petroleum soil-fill, including odors, black-stained soils, and elevated PID readings were noted in SB-11, SB-12, SB-13, and SB-22, with PID readings as high as 368 ppm. Highest PID readings were located in the vicinity of the former USTs locations along Jefferson Avenue (see Figure 2). Oily product was identified on the boring sleeve at SB-11 (downgradient of closed in place UST).

Fill material was noted across the Site at varying thickness ranging from 1 to 10 feet below ground surface (fbgs), and generally consisted of brick, block, glass, metal, wood, ash, and cinders. Table 1 provides a summary of field observations and PID measurements.

Based on the field findings during the investigation, including visual product and staining, odors, and elevated PID readings, notification was provided to the NYSDEC hotline and Spill No. 1710381 was issued for the Site. The Spill file is currently open.

It should be noted that access to complete drilling within the building was limited, particularly related to the closed in place 8,000 gallon UST under the southern portion of the building. Field impacts were noted downgradient of the former tank during exterior boring advancement.

## 3.2 Soil Analytical Results

Laboratory soil analytical results are summarized on Table 2. Elevated chlorinated VOCs, including trichloroethene (TCE), cis-1,2-dichloroethene (DCE), and methylene chloride were detected exceeding the Protection of Groundwater SCOs (PGSCOs) at several locations.

Elevated petroleum related VOCs, including benzene, ethylbenzene, toluene, and xylene (BTEX compounds), 1,2,4- and 1,3,5-Trimethylbenzene were detected exceeding Unrestricted Use and Restricted Residential Use SCOs.

Elevated metals, including arsenic, barium, and chromium were detected exceeding the Industrial Use (USCO), Commercial Use, and Restricted Residential Use SCOs, respectively. Elevated lead and mercury were detected exceeding their respective USCOs in shallow soil fill samples at multiple locations (see Table 2 and Figure 3).

## 3.3 Groundwater Analytical Results

Groundwater analytical results are summarized on Table 3. Elevated chlorinated VOCs, including tetrachloroethene (PCE), TCE, cis- and trans-DCE, and vinyl chloride (VC) were detected exceeding their respective Groundwater Quality Standards (GWQS), including from beneath the existing building in TMW-1 and assumed downgradient location in TMW-2. It should be noted that elevated chlorinated VOCs exceeding PGSCOs in soil, and GWQS in groundwater were detected from the same sample locations.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this Limited Phase II Environmental Investigation at the Site, TurnKey offers the following conclusions and recommendations:

- Grossly contaminated petroleum soils were detected on Site, including visual product on soil cutting sleeve at SB-11 (downgradient of closed in-place 8,000-gallon UST), odors and elevated PID readings at four (4) locations.
- Elevated chlorinated VOCs, likely related to the former dry cleaning operations onsite, were detected in soil samples exceeding Protection of Groundwater SCOs.
- Elevated petroleum VOCs were detected in soil samples exceeding USCO and RRSCOs at several locations.
- Elevated chlorinated VOCs were detected in groundwater samples exceeding GWQS, including PCE, TCE, DCE and VC.
- Shallow fill material, including brick, block, cinders and ash were detected across the site, ranging in depth from 1-10 fbgs.
- Elevated metals, including arsenic, barium, and chromium were detected in soil exceeding ISCO, CSCO, and RRSCO, respectively. Elevated lead and mercury were detected above USCOs at multiple locations.
- Based on the presence of elevated chlorinated VOCs exceeding SCGs in soil and groundwater, including beneath the existing building and downgradient location, indicates the likely presence of dry cleaning related contamination beneath the existing building.
- Based on the findings of this investigation, additional investigation and remediation appears warranted prior to Site redevelopment. TurnKey recommends completing a Soil Vapor Intrusion (SVI) assessment of the existing building, based on the presence of chlorinated VOCs in soil and groundwater beneath the building.
- We understand that you or related entity, is considering redeveloping the property; based on environmental impacts noted during this investigation, the Site may be eligible for the New York Brownfield Cleanup Program.

## 5.0 LIMITATIONS

This report has been prepared for the exclusive use of 1200 Jefferson Properties, LLC. The contents of this report are limited to information available at the time of the site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of 1200 Jefferson Properties, LLC. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

# TABLES

**TABLE 1**
**SOIL BORING SUMMARY**
**1200 JEFFERSON AVENUE SITE**

| Location | Date | Fill Present | Depth of Fill | Visually Impacted Soil/Fill? | Olfactory Odor | Maximum PID Depth (fbgs) - Reading (ppm) | Soil Description and Depth (fbgs) |
|---|---|---|---|---|---|---|---|
| ***Soil Boring Locations*** | | | | | | | |
| SB-1 | 02/15/18 | yes | 1' | | | .5'-0.3 | **0.0-0.33 Concrete**<br>**.33-1.0 Fill:** Black/ brown, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, little silt.<br>**1.0-12 Sandy Lean Clay:** Reddish brown, moist to wet (8'), mostly medium plasticity fines, some fines sand, stiff, no odors. |
| SB-2 | 02/15/18 | Yes | 1' | | | N/A | **0.0-0.25 Concrete**<br>**.25-1.0 Fill:** Dark brown, moist, mostly silt, some fine sand, urban fill[1], cinders, ash.<br>**1.0-8.0 Sandy Lean Clay:** Reddish brown, moist to wet (8'), mostly medium plasticity fines, some fines sand, stiff, no odors. |
| SB-3 | 02/15/18 | No | N/a | | Yes | 4-1.8 | **0.0-0.5 Concrete**<br>**.5-1.5 Silty sand:** Tan / dark brown, moist, mostly fine to medium sands, little silt, few subrounded gravel, slight odors.<br>**1.5-12.0 Sandy Lean Clay:** Reddish brown / tan, moist to wet (9'), mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-4 | 02/15/18 | Yes | 1' | | | N/A | **0.0-0.08 Concrete**<br>**.08-1.0 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, urban fill[1], cinders, little silt.<br>**1.0-12.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-5 | 02/15/18 | Yes | 1.5' | | | N/A | **0.0-0.16 Concrete**<br>**.16-1.5 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, little silt.<br>**1.5-10.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-6 | 02/15/18 | Yes | .5' | | | N/A | **0.0-0.25 Concrete**<br>**.25-1.0 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, little silt.<br>**1.0-8.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-7 | 02/15/18 | Yes | .5' | | | N/A | **0-.5 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, little silt.<br>**.5-2.0 Fine sand: T**an, moist , mostly fine sand, few medium plasticity fines, little subangular gravel, medium dense.<br>**2.0-8.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-8 | 02/15/18 | Yes | 1' | | | N/A | **0-.33 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, little silt.<br>**.33-1.0 Fill:** Black, moist, mostly medoum plasticity fines, some fine sand, some urban fill[1], Cinders, black staining, odors<br>**1.0-8.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-9 | 02/16/18 | Yes | 8" | | | N/A | **0-.5 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, little silt.<br>**.66-1.5 Silty Clay:** Black, moist, mostly medium plasticity fines, little silt, little fine sand, few subangular gravel<br>**1.5-10.0 Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-10 | 02/16/18 | Yes | 6" | | | N/A | **0.0-0.25 Asphalt**<br>**.25-1.5 Fill:** Dark brown, moist, mostly medium plasticity fines, some fine sand, urban fill[1], ash, cinders, little silt.<br>**1.5-12.0 Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-11 | 02/16/18 | Yes | 8' | | Yes | 9'-58 | **0.0-0.25 Asphalt**<br>**.25-4.0 Fill:** Dark brown/ black, moist, mostly urban fill[1] ash, cinders some fine sand.<br>**4.0-8.0 Fill:** Black, wet, mostly urban fill[1] ash, cinders some fine sand, some medium plasticity fines, some fine sand, product on sleeve and soil, odors<br>**8.0-12.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, odors |
| SB-12 | 02/16/18 | Yes | .5' | | Yes | 8'-368 | **0.0-0.16 Concrete**<br>**0.16-.5 Fill:** Tan/ white, moist, mostly urban fill[1] ash, cinders some fine sand, odors.<br>**.50-.75 Fill:** Dark brown, moist, mostly medium plasticity fines, some fine sand, silt, slight odors.<br>**.75-12.0 Sandy Lean Clay:** Reddish brown / tan, moist to wet (10') , mostly medium plasticity fines, some fines sand, stiff, strong odors |
| SB-13 | 02/16/18 | No | .5' | | Yes | 8'-295 | **0.0-0.25 Concrete**<br>**0.25-.5 Gravel subbase:** grey, moist, mostly urban fill[1] ash, cinders some fine sand, odors.<br>**.50-.75 Fill:** Dark brown, moist, mostly medium plasticity fines, some fine sand, silt, slight odors.<br>**.75-12.0 Sandy Lean Clay:** Reddish brown / tan, moist to wet (10') , mostly medium plasticity fines, some fines sand, stiff, strong odors |
| SB-14 | 02/16/18 | Yes | 6' | | | N/A | **0-.25 Topsoil**<br>**.25-4.0 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, ash, little silt.<br>**4.0 - 6.0 Concrete**<br>**6-8.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-15 | 02/16/18 | No | N/a | | | N/A | **0.0-0.25 Asphalt**<br>**0.25-8.0 Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fines sand, stiff, |
| SB-16 | 02/16/18 | No | N/a | | | N/A | **0.0-0.25 Topsoil**<br>**0.25-8.0 Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fines sand, stiff, |
| SB-17 | 02/16/18 | Yes | 1.5' | | | N/A | **0-.25 Topsoil**<br>**.25-1.5 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, limestone little silt.<br>**1.5-4.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-18 | 02/16/18 | Yes | 10' | | | N/A | **0-.25 Topsoil**<br>**.25-10 Fill:** Black, moist to wet (8'), mostly urban fill[1], cinders, ash, wood, some fine sand, some well sorted gravel, urban fill[1], cinders, ash, wood, odors.<br>**10-12.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-19 | 02/16/18 | Yes | 9' | | | N/A | **0-.33 Topsoil**<br>**.33-1.5 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, ash, little silt.<br>**1.5 - 9.0 Fill:** Black, white,moist, mostly fine sand, some subrounded gravel, urban fill[1], cinders, ash<br>**9-11.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-20 | 02/16/18 | Yes | 4' | | | N/A | **0-4.0 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, little silt. |
| SB-21 | 02/16/18 | No | N/a | | | N/A | **0-.25 Topsoil**<br>**0.25-3.0 Fill:** Dark brown/ black, moist, mostly medium plasticity fines, some fine sand, urban fill[1], cinders, little silt.<br>**3-4.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |
| SB-22 | 02/16/18 | Yes | 5.5' | | Yes | 4'-6 | **0-.33 Topsoil**<br>**.33-2.5 Fill:** Tan/ black, moist, mostly fine sand, urban fill[1], cinders, coal, ash, little silt.<br>**2.5 - 5.5 Fill:** White, moist, mostly concrete/ debris, some ash, petroleum-like odors<br>**5.5-11.0 Sandy Lean Clay:** Reddish brown / tan, moist , mostly medium plasticity fines, some fines sand, stiff, no odors |

**Notes:**
1. Urban Fill: Consisiting of brick, block, glass,metal, wood

**Definitions:**
fbgs = feet below ground surface
PID = MiniRae photoionization detector equipped with a 10.6 eV lamp
ppm = parts per million
N/A = Non applicable

**TABLE 2**

**SUMMARY OF SUBSURFACE SOIL/FILL ANALYTICAL RESULTS**

**1200 JEFFERSON AVENUE SITE**
**BUFFALO, NEW YORK**

| PARAMETER [1] | Protection of Groundwater SCOs [2] | Unrestricted Use SCOs [2] | Restricted Residential Use SCOs [2] | Commercial Use SCOs [2] | Industrial Use SCO's [2] | SAMPLE LOCATION (DEPTH) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SB-1 (4"-1') | SB-5 (0-2') | FD-1 | SB-11 (7-8') | SB-12 (8-9') | SB-13 (6-8') | SB-18 (1.5-2.5') | SB-22 (.5-2.5') | SB-12 (2"-6") |
| | | | | | | 02/15/2018 | | | 02/16/2018 | | | | | |
| ***Volatile Organic Compounds (VOCs) - mg/Kg*** [3] | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | -- | 3.6 | 52 | 190 | 380 | ND | -- | 97 | ND | 7.2 | 8.1 | -- | -- | -- |
| 1,3,5-Trimethylbenzene | -- | 8.4 | 52 | 190 | 380 | ND | -- | 30 | ND | 2.4 | 2.3 | -- | -- | -- |
| 4-Isopropyltoluene | -- | -- | -- | -- | -- | ND | -- | 14 | ND | 0.14 | 0.17 | -- | -- | -- |
| Benzene | -- | 0.06 | 4.8 | 44 | 89 | ND | -- | ND | ND | 0.2 | 0.052 J | -- | -- | -- |
| Chloroform | 0.37 | 0.37 | 49 | 350 | 700 | 0.003 | -- | ND | ND | ND | ND | -- | -- | -- |
| cis-1,2-Dichloroethene | 0.25 | 0.25 | 100 | 500 | 1,000 | ND | -- | ND | 0.42 J | ND | ND | -- | -- | -- |
| Ethylbenzene | -- | 1 | 41 | 390 | 780 | ND | -- | 1.1 J | ND | 2.1 | 2.1 | -- | -- | -- |
| Isopropylbenzene (Cumene) | -- | -- | -- | -- | -- | ND | -- | 1.9 | ND | 0.29 | 0.16 | -- | -- | -- |
| Methylcyclohexane | -- | -- | -- | -- | -- | ND | -- | ND | ND | 1.3 | 0.42 | -- | -- | -- |
| Methylene chloride | 0.05 | 0.05 | 100 | 500 | 1,000 | ND | -- | 0.85 B,J | 0.24 B,J | 0.15 B | 0.13 B | -- | -- | -- |
| n-Butylbenzene | -- | 12 | 100 | 500 | 1,000 | ND | -- | 34 | 5 | 0.91 | 0.54 | -- | -- | -- |
| n-Propylbenzene | -- | 3.9 | 100 | 500 | 1,000 | ND | -- | 4.6 | ND | 1.3 | 0.88 | -- | -- | -- |
| sec-Butylbenzene | -- | 11 | 100 | 500 | 1,000 | ND | -- | 1.1 | ND | 0.18 | 0.075 J | -- | -- | -- |
| Tetrachloroethene | 1.3 | 1.3 | 19 | 150 | 300 | 0.22 | -- | ND | ND | 0.063 J | ND | -- | -- | -- |
| Toluene | 0.7 | 0.7 | 100 | 500 | 1,000 | ND | -- | 2.5 | ND | 0.052 J | 0.28 | -- | -- | -- |
| Trichloroethene | 0.47 | 0.47 | 21 | 200 | 400 | ND | -- | 0.54 J | ND | ND | ND | -- | -- | -- |
| Total Xylenes | -- | 0.26 | 100 | 500 | 1000 | ND | -- | 11 | ND | 3.7 J | 11 | -- | -- | -- |
| ***Semi-Volatile Organic Compounds (SVOCs) - mg/Kg*** [3] | | | | | | | | | | | | | | |
| Anthracene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.067 | ND | ND |
| Benzo(a)anthracene | -- | 1 | 1 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.21 | 0.69 J | 0.72 J |
| Benzo(a)pyrene | -- | 1 | 1 | 1 | 1 | -- | ND | ND | -- | -- | -- | 0.2 | 0.68 J | 0.63 J |
| Benzo(b)fluoranthene | -- | 1 | 1 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.25 | 0.85 J | 0.77 J |
| Benzo(ghi)perylene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.16 J | 0.45 J | 0.46 J |
| Benzo(k)fluoranthene | -- | 0.8 | 3.9 | 56 | 110 | -- | ND | ND | -- | -- | -- | 0.12 J | 0.44 J | ND |
| Carbazole | -- | -- | -- | -- | -- | -- | ND | ND | -- | -- | -- | ND | ND | ND |
| Chrysene | -- | 1 | 3.9 | 56 | 110 | -- | ND | ND | -- | -- | -- | 0.22 | 0.75 J | 0.7 J |
| Fluoranthene | -- | 100 | 100 | 500 | 1,000 | -- | 0.029 | 11 J | -- | -- | -- | 0.3 | 1.3 J | 1.3 |
| Indeno(1,2,3-cd)pyrene | -- | 0.5 | 0.5 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.14 J | 0.44 J | ND |
| Naphthalene | -- | 12 | 100 | 500 | 1,000 | -- | ND | 38 J | -- | -- | -- | 0.086 J | ND | ND |
| Phenanthrene | -- | 100 | 100 | 500 | 1,000 | -- | ND | 8.8 J | -- | -- | -- | 0.27 | 0.56 J | 0.79 J |
| Pyrene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.34 | 1.2 J | 1.3 |
| Total PAHs | -- | -- | 100 | 500 | -- | -- | 0.029 | 57.8 | -- | -- | -- | 2.363 | 7.36 | 6.67 |
| ***Metals - mg/Kg*** | | | | | | | | | | | | | | |
| Arsenic | -- | 13 | 16 | 16 | 16 | -- | 6 | 3.5 | -- | -- | -- | 11.8 | 8.8 | 18.3 |
| Barium | -- | 350 | 400 | 400 | 10,000 | -- | 127 | 436 | -- | -- | -- | 55.9 | 155 | 116 |
| Cadmium | -- | 2.5 | 4.3 | 9.3 | 60 | -- | ND | ND | -- | -- | -- | ND | 0.66 | ND |
| Chromium | -- | 30 | 180 | 1,500 | 6,800 | -- | 23.7 | 228 | -- | -- | -- | 10.2 | 15.1 | 14.6 |
| Lead | -- | 63 | 400 | 1,000 | 3,900 | -- | 205 | 36.9 | -- | -- | -- | 12.8 | 346 | 63.3 |
| Mercury | -- | 0.18 | 0.81 | 2.8 | 6 | -- | 0.26 | 0.046 | -- | -- | -- | 0.19 | 0.19 | 0.099 |

**Notes:**

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

**Definitions:**

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter. Or parameter not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

| | |
|---|---|
| **Bold** | = Result exceeds Protection of Groundwater SCOs. |
| **Bold** | = Result exceeds Unrestricted Use SCOs. |
| **Bold** | = Result exceeds Restricted Residential Use SCOs. |
| **Bold** | = Result exceeds Commercial Use SCOs. |
| **Bold** | = Result exceeds Industrial Use SCOs. |

**TABLE 3**

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**

**1200 JEFFERSON AVENUE SITE**
**BUFFALO, NEW YORK**

| Parameters [1] | Class GA GWQS[2] | Sample Location | |
|---|---|---|---|
| | | TMW-1 | TMW-2 |
| | | 2/15/18 | 2/16/18 |
| ***Volatile Organic Compounds (VOCs) - ug/L*** | | | |
| 1,1-Dichloroethene | **5** | ND | 1.4 |
| Chloroform | **7** | 3 | ND |
| Methylene Chloride | **5** | 3.1 | 0.96 |
| n-Butylbenzene | **5** | ND | **7.5** |
| Tetrachloroethene | **5** | **30** | **6.3** |
| Trichloroethene | **5** | ND | **11** |
| cis-1,2-Dichloroethene | **5** | 2.7 | **470** |
| trans-1,2-Dichloroethene | **5** | ND | **9.2** |
| Vinyl Chloride | **2** | ND | **360** |

**Notes:**

1. Only parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards.

**Qualifiers:**

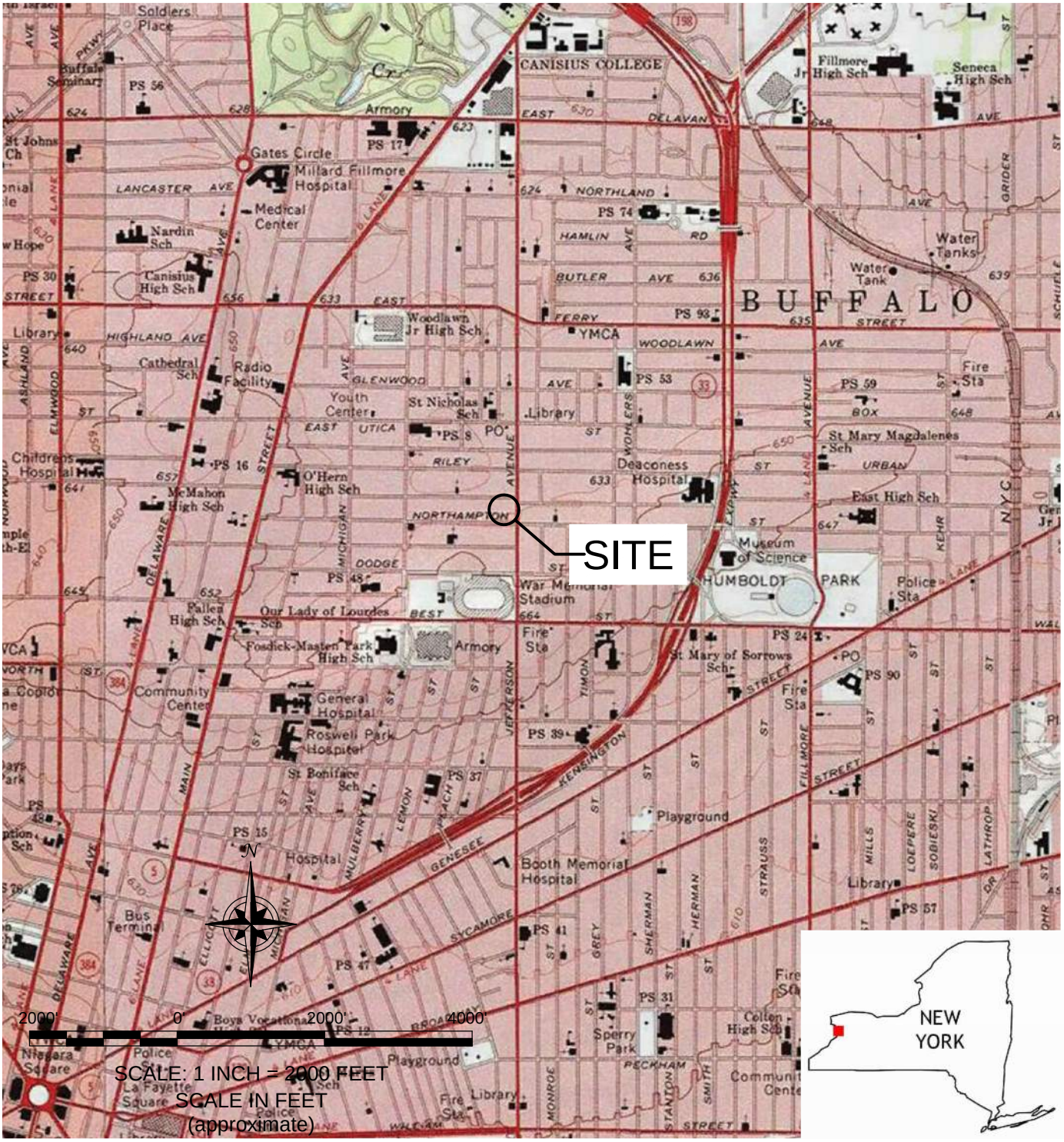
ND = Parameter not detected above laboratory detection limit.

**BOLD** = Result exceeds GWQS.

# FIGURES

F:\CAD\TurnKey\Sinatra\1200 Jefferson\Phase II\Figure 1 - Site Location and Vicinity Map.dwg

# FIGURE 1





TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635


## SITE LOCATION AND VICINITY MAP

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION

1200 JEFFERSON AVENUE SITE

BUFFALO, NEW YORK

PREPARED FOR

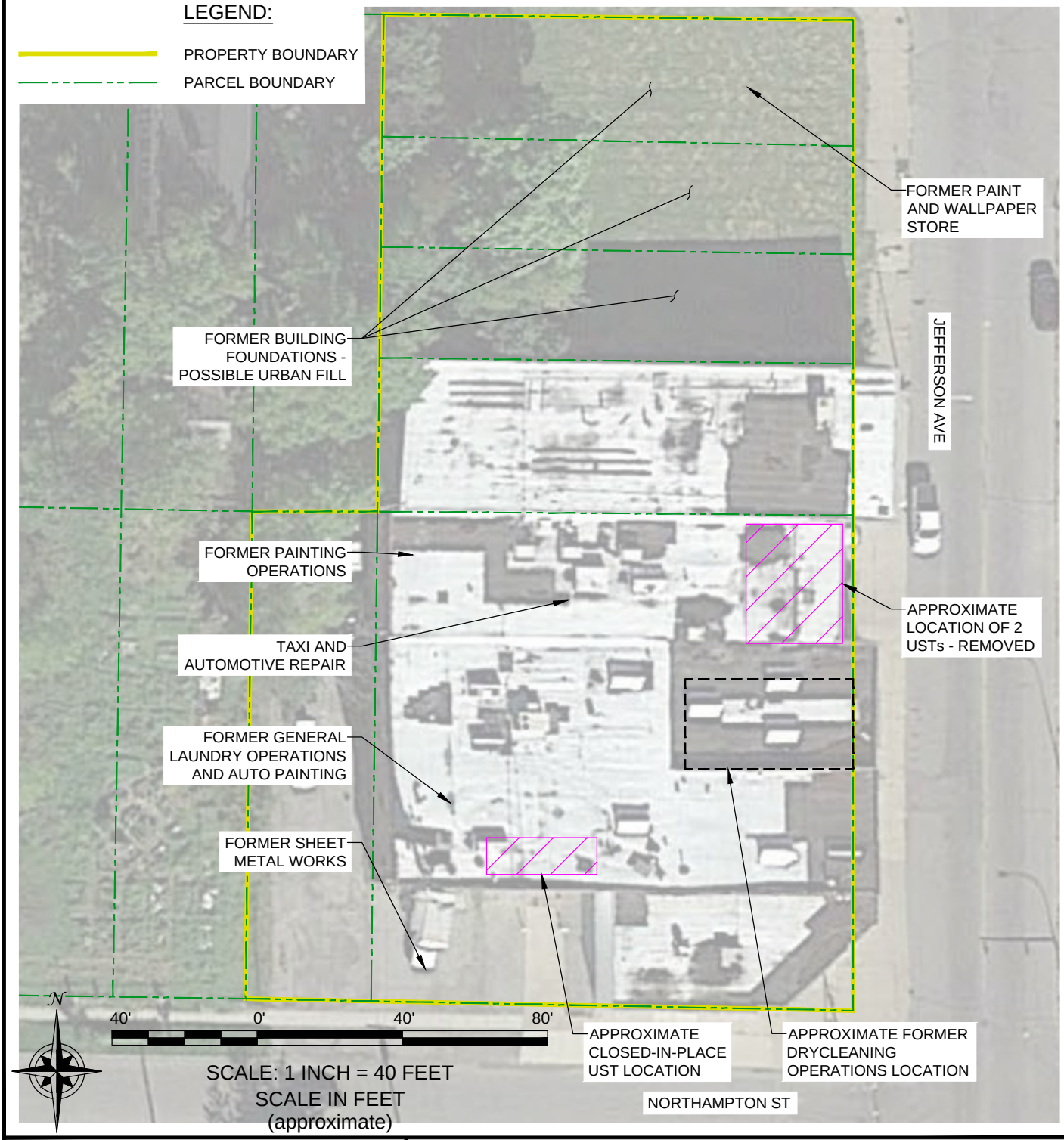
1200 JEFFERSON PROPERTIES, LLC

| | |
|---|---|
| PROJECT NO.: | 0239-018-001 |
| DATE: | APRIL 2018 |
| DRAFTED BY: | CMS |


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F:\CAD\TurnKey\Sinatra\1200 Jefferson\Phase II\Figure 2 - Site Plan and Areas of Concern.dwg

# FIGURE 2





TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635


PROJECT NO.: 0239-018-001

DATE: APRIL 2018

DRAFTED BY: CMS

## SITE PLAN AND AREAS OF CONCERN

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION

1200 JEFFERSON AVENUE SITE

BUFFALO, NEW YORK

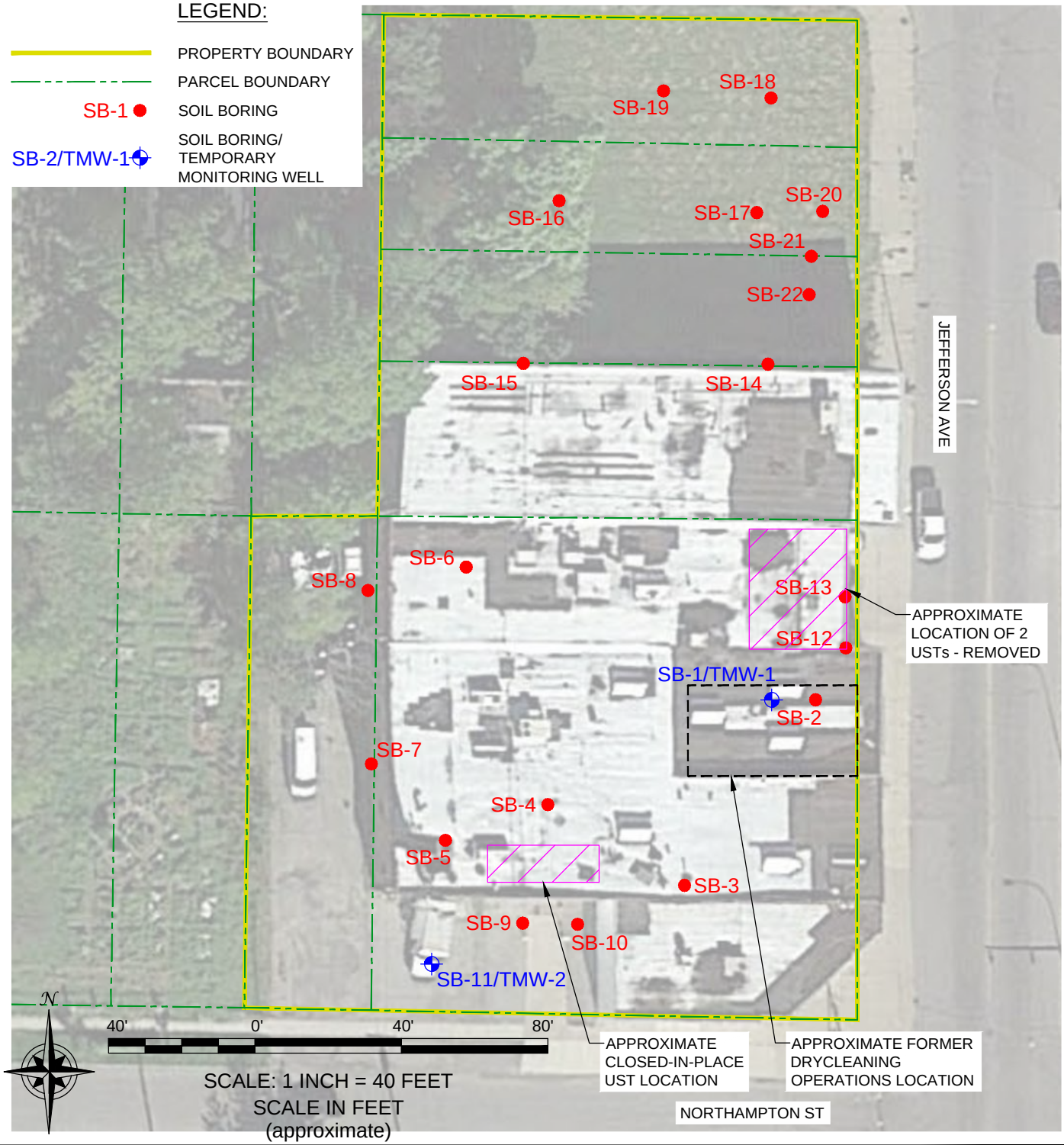
PREPARED FOR

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F:\CAD\TurnKey\Sinatra\1200 Jefferson\Phase II\Figure 3 - Investigation Locations.dwg

# FIGURE 3





TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635


## INVESTIGATION LOCATIONS

LIMITED PHASE II ENVIRONMENTAL INVESTIGATION

1200 JEFFERSON AVENUE SITE

BUFFALO, NEW YORK

PREPARED FOR

1200 JEFFERSON PROPERTIES, LLC

PROJECT NO.: 0239-018-001

DATE: APRIL 2018

DRAFTED BY: CMS


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# APPENDIX A

## LABORATORY ANALYTICAL DATA SUMMARY PACKAGE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-131427-1
Client Project/Site: Benchmark - 1200 Jefferson St

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Nate Munley

Joseph V. Giacomazza

*Authorized for release by:*
*2/23/2018 9:00:51 AM*
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |
| * | LCS or LCSD is outside acceptance limits. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate is outside control limits |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 480-131427-1

### Laboratory: TestAmerica Buffalo

**Narrative**

**Job Narrative**
**480-131427-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 2/16/2018 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.8º C.

**GC/MS VOA**
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-400512 recovered outside acceptance criteria, low biased, for 2-Hexanone, 1,1,2,2-Tetrachloroethane, 4-Methyl-2-pentanone (MIBK), and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-2 (480-131427-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (480-131427-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-2 (480-131427-8).
The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted due to matrix: SB-11 (7-8') (480-131427-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: SB-12 (8-9') (480-131427-2) and SB-13 (6-8') (480-131427-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-400787 recovered above the upper control limit for 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Trichlorofluoromethane and Methylcyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: SB-11 (7-8') (480-131427-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
Method(s) 8270D: The following samples were diluted due to color and appearance: SB-22 (6"-2.5') (480-131427-5), SS-1 (480-131427-6) and SB-12 (2"-6") (480-131427-7). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following samples required a dilution due to the nature of the sample matrix: SS-1 (480-131427-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
Method(s) 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: SS-1

## Job ID: 480-131427-1 (Continued)

### Laboratory: TestAmerica Buffalo (Continued)

(480-131427-6). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

## Client Sample ID: SB-11 (7-8') — Lab Sample ID: 480-131427-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 420 | J | 510 | 140 | ug/Kg | 4 | ☼ | 8260C | Total/NA |
| Methylene Chloride | 240 | J B | 510 | 100 | ug/Kg | 4 | ☼ | 8260C | Total/NA |
| n-Butylbenzene | 5000 | | 510 | 150 | ug/Kg | 4 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-12 (8-9') — Lab Sample ID: 480-131427-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 7200 | | 120 | 34 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| 1,3,5-Trimethylbenzene | 2400 | | 120 | 37 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| 4-Isopropyltoluene | 140 | | 120 | 41 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Benzene | 200 | | 120 | 23 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Ethylbenzene | 2100 | | 120 | 36 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Isopropylbenzene | 290 | | 120 | 18 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| m,p-Xylene | 3600 | | 240 | 68 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Methylcyclohexane | 1300 | | 120 | 57 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Methylene Chloride | 150 | B | 120 | 24 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| n-Butylbenzene | 910 | | 120 | 36 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| N-Propylbenzene | 1300 | | 120 | 32 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| o-Xylene | 92 | J | 120 | 16 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| sec-Butylbenzene | 180 | | 120 | 45 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene | 63 | J | 120 | 16 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Toluene | 52 | J | 120 | 33 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Xylenes, Total | 3700 | | 240 | 68 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-13 (6-8') — Lab Sample ID: 480-131427-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 8100 | | 120 | 34 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| 1,3,5-Trimethylbenzene | 2300 | | 120 | 37 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| 4-Isopropyltoluene | 170 | | 120 | 42 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Benzene | 52 | J | 120 | 23 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Ethylbenzene | 2100 | | 120 | 36 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Isopropylbenzene | 160 | | 120 | 19 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| m,p-Xylene | 9400 | | 250 | 68 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Methylcyclohexane | 420 | | 120 | 58 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Methylene Chloride | 130 | B | 120 | 24 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| n-Butylbenzene | 540 | | 120 | 36 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| N-Propylbenzene | 880 | | 120 | 32 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| o-Xylene | 1100 | | 120 | 16 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| sec-Butylbenzene | 75 | J | 120 | 45 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Toluene | 280 | | 120 | 33 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Xylenes, Total | 11000 | | 250 | 68 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-18 (1.5-2.5) — Lab Sample ID: 480-131427-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Anthracene | 67 | J | 220 | 56 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]anthracene | 210 | J | 220 | 22 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 200 | J | 220 | 33 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 250 | | 220 | 36 | ug/Kg | 1 | ☼ | 8270D | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SB-18 (1.5-2.5) (Continued) — Lab Sample ID: 480-131427-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[g,h,i]perylene | 160 | J | 220 | 24 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 120 | J | 220 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 220 | | 220 | 50 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 300 | | 220 | 24 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 140 | J | 220 | 28 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Naphthalene | 86 | J | 220 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 270 | | 220 | 33 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 340 | | 220 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 11.8 | | 2.5 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 55.9 | | 0.63 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 10.2 | | 0.63 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 12.8 | | 1.3 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.19 | | 0.027 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: SB-22 (6"-2.5') — Lab Sample ID: 480-131427-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | 690 | J | 1800 | 180 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 680 | J | 1800 | 270 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 850 | J | 1800 | 290 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 450 | J | 1800 | 190 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 440 | J | 1800 | 240 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Chrysene | 750 | J | 1800 | 410 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Fluoranthene | 1300 | J | 1800 | 190 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 440 | J | 1800 | 220 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Phenanthrene | 560 | J | 1800 | 270 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Pyrene | 1200 | J | 1800 | 210 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Arsenic | 8.8 | | 2.2 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 155 | | 0.55 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.66 | | 0.22 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 15.1 | | 0.55 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 346 | | 1.1 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.19 | | 0.022 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: SS-1 — Lab Sample ID: 480-131427-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | 7500 | J | 45000 | 4700 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Pyrene | 7900 | J | 45000 | 5200 | ug/Kg | 20 | ☼ | 8270D | Total/NA |

## Client Sample ID: SB-12 (2"-6") — Lab Sample ID: 480-131427-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | 720 | J | 1000 | 100 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 630 | J | 1000 | 150 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 770 | J | 1000 | 160 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 460 | J | 1000 | 110 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Chrysene | 700 | J | 1000 | 220 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Fluoranthene | 1300 | | 1000 | 110 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Phenanthrene | 790 | J | 1000 | 150 | ug/Kg | 5 | ☼ | 8270D | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SB-12 (2"-6") (Continued)

## Lab Sample ID: 480-131427-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Pyrene | 1300 | | 1000 | 120 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Arsenic | 18.3 | | 2.4 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 116 | | 0.59 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 14.6 | | 0.59 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 63.3 | | 1.2 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.099 | | 0.024 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: MW-2

## Lab Sample ID: 480-131427-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1.4 | J | 2.0 | 0.58 | ug/L | 2 | | 8260C | Total/NA |
| Methylene Chloride | 0.96 | J | 2.0 | 0.88 | ug/L | 2 | | 8260C | Total/NA |
| n-Butylbenzene | 7.5 | | 2.0 | 1.3 | ug/L | 2 | | 8260C | Total/NA |
| Tetrachloroethene | 6.3 | | 2.0 | 0.72 | ug/L | 2 | | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 9.2 | | 2.0 | 1.8 | ug/L | 2 | | 8260C | Total/NA |
| Trichloroethene | 11 | | 2.0 | 0.92 | ug/L | 2 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene - DL | 470 | | 10 | 8.1 | ug/L | 10 | | 8260C | Total/NA |
| Vinyl chloride - DL | 360 | | 10 | 9.0 | ug/L | 10 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SB-11 (7-8')**
**Date Collected: 02/16/18 09:55**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-1**
**Matrix: Solid**
**Percent Solids: 83.3**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 510 | 140 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,1,2,2-Tetrachloroethane | ND | | 510 | 82 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 510 | 250 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,1,2-Trichloroethane | ND | | 510 | 110 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,1-Dichloroethane | ND | | 510 | 160 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,1-Dichloroethene | ND | | 510 | 180 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,2,4-Trichlorobenzene | ND | | 510 | 190 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,2,4-Trimethylbenzene | ND | | 510 | 140 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,2-Dibromo-3-Chloropropane | ND | | 510 | 250 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,2-Dibromoethane | ND | | 510 | 89 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,2-Dichlorobenzene | ND | | 510 | 130 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,2-Dichloroethane | ND | | 510 | 210 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,2-Dichloropropane | ND | | 510 | 82 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,3,5-Trimethylbenzene | ND | | 510 | 150 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,3-Dichlorobenzene | ND | | 510 | 140 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 1,4-Dichlorobenzene | ND | | 510 | 71 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 2-Butanone (MEK) | ND | | 2500 | 1500 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 2-Hexanone | ND | | 2500 | 1000 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 4-Isopropyltoluene | ND | | 510 | 170 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2500 | 160 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Acetone | ND | | 2500 | 2100 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Benzene | ND | | 510 | 96 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Bromodichloromethane | ND | | 510 | 100 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Bromoform | ND | | 510 | 250 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Bromomethane | ND | | 510 | 110 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Carbon disulfide | ND | | 510 | 230 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Carbon tetrachloride | ND | | 510 | 130 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Chlorobenzene | ND | | 510 | 67 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Chloroethane | ND | | 510 | 110 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Chloroform | ND | | 510 | 350 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Chloromethane | ND | | 510 | 120 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| **cis-1,2-Dichloroethene** | **420** | **J** | 510 | 140 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| cis-1,3-Dichloropropene | ND | | 510 | 120 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Cyclohexane | ND | | 510 | 110 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Dibromochloromethane | ND | | 510 | 250 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Dichlorodifluoromethane | ND | | 510 | 220 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Ethylbenzene | ND | | 510 | 150 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Isopropylbenzene | ND | | 510 | 76 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| m,p-Xylene | ND | | 1000 | 280 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Methyl acetate | ND | | 2500 | 240 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Methyl tert-butyl ether | ND | | 510 | 190 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Methylcyclohexane | ND | | 510 | 240 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| **Methylene Chloride** | **240** | **J B** | 510 | 100 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| **n-Butylbenzene** | **5000** | | 510 | 150 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| N-Propylbenzene | ND | | 510 | 130 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| o-Xylene | ND | | 510 | 66 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| sec-Butylbenzene | ND | | 510 | 190 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Styrene | ND | | 510 | 120 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| tert-Butylbenzene | ND | | 510 | 140 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SB-11 (7-8')**
**Date Collected: 02/16/18 09:55**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-1**
**Matrix: Solid**
**Percent Solids: 83.3**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | | 510 | 68 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Toluene | ND | | 510 | 140 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| trans-1,2-Dichloroethene | ND | | 510 | 120 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| trans-1,3-Dichloropropene | ND | | 510 | 50 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Trichloroethene | ND | | 510 | 140 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Trichlorofluoromethane | ND | | 510 | 240 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Vinyl chloride | ND | | 510 | 170 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |
| Xylenes, Total | ND | | 1000 | 280 | ug/Kg | ☼ | 02/20/18 10:43 | 02/21/18 15:54 | 4 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *53 - 146* | *02/20/18 10:43* | *02/21/18 15:54* | *4* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *49 - 148* | *02/20/18 10:43* | *02/21/18 15:54* | *4* |
| *Dibromofluoromethane (Surr)* | *97* | | *60 - 140* | *02/20/18 10:43* | *02/21/18 15:54* | *4* |
| *Toluene-d8 (Surr)* | *102* | | *50 - 149* | *02/20/18 10:43* | *02/21/18 15:54* | *4* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SB-12 (8-9')**
**Date Collected: 02/16/18 10:30**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-2**
**Matrix: Solid**
**Percent Solids: 86.3**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 120 | 20 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 120 | 61 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,1,2-Trichloroethane | ND | | 120 | 26 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,1-Dichloroethane | ND | | 120 | 38 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,1-Dichloroethene | ND | | 120 | 42 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 120 | 46 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **1,2,4-Trimethylbenzene** | **7200** | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 120 | 61 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,2-Dibromoethane | ND | | 120 | 21 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,2-Dichlorobenzene | ND | | 120 | 31 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,2-Dichloroethane | ND | | 120 | 50 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,2-Dichloropropane | ND | | 120 | 20 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **1,3,5-Trimethylbenzene** | **2400** | | 120 | 37 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,3-Dichlorobenzene | ND | | 120 | 33 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 1,4-Dichlorobenzene | ND | | 120 | 17 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 2-Butanone (MEK) | ND | | 610 | 360 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 2-Hexanone | ND | | 610 | 250 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **4-Isopropyltoluene** | **140** | | 120 | 41 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 610 | 39 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Acetone | ND | | 610 | 500 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **Benzene** | **200** | | 120 | 23 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Bromodichloromethane | ND | | 120 | 24 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Bromoform | ND | | 120 | 61 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Bromomethane | ND | | 120 | 27 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Carbon disulfide | ND | | 120 | 56 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Carbon tetrachloride | ND | | 120 | 31 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Chlorobenzene | ND | | 120 | 16 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Chloroethane | ND | | 120 | 25 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Chloroform | ND | | 120 | 84 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Chloromethane | ND | | 120 | 29 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| cis-1,2-Dichloroethene | ND | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| cis-1,3-Dichloropropene | ND | | 120 | 29 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Cyclohexane | ND | | 120 | 27 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Dibromochloromethane | ND | | 120 | 59 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Dichlorodifluoromethane | ND | | 120 | 53 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **Ethylbenzene** | **2100** | | 120 | 36 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **Isopropylbenzene** | **290** | | 120 | 18 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **m,p-Xylene** | **3600** | | 240 | 68 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Methyl acetate | ND | | 610 | 58 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Methyl tert-butyl ether | ND | | 120 | 46 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **Methylcyclohexane** | **1300** | | 120 | 57 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **Methylene Chloride** | **150** | **B** | 120 | 24 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **n-Butylbenzene** | **910** | | 120 | 36 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **N-Propylbenzene** | **1300** | | 120 | 32 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **o-Xylene** | **92** | **J** | 120 | 16 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **sec-Butylbenzene** | **180** | | 120 | 45 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Styrene | ND | | 120 | 29 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| tert-Butylbenzene | ND | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SB-12 (8-9')**
**Date Collected: 02/16/18 10:30**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-2**
**Matrix: Solid**
**Percent Solids: 86.3**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **63** | **J** | 120 | 16 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **Toluene** | **52** | **J** | 120 | 33 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| trans-1,2-Dichloroethene | ND | | 120 | 29 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| trans-1,3-Dichloropropene | ND | | 120 | 12 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Trichloroethene | ND | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Trichlorofluoromethane | ND | | 120 | 57 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| Vinyl chloride | ND | | 120 | 41 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |
| **Xylenes, Total** | **3700** | | 240 | 68 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *53 - 146* | *02/20/18 10:43* | *02/22/18 14:36* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *49 - 148* | *02/20/18 10:43* | *02/22/18 14:36* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *60 - 140* | *02/20/18 10:43* | *02/22/18 14:36* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *50 - 149* | *02/20/18 10:43* | *02/22/18 14:36* | *1* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SB-13 (6-8')**
**Date Collected: 02/16/18 11:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-3**
**Matrix: Solid**
**Percent Solids: 86.4**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 120 | 20 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 120 | 62 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,1,2-Trichloroethane | ND | | 120 | 26 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,1-Dichloroethane | ND | | 120 | 38 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,1-Dichloroethene | ND | | 120 | 43 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 120 | 47 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **1,2,4-Trimethylbenzene** | **8100** | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 120 | 62 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,2-Dibromoethane | ND | | 120 | 22 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,2-Dichlorobenzene | ND | | 120 | 31 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,2-Dichloroethane | ND | | 120 | 51 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,2-Dichloropropane | ND | | 120 | 20 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **1,3,5-Trimethylbenzene** | **2300** | | 120 | 37 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,3-Dichlorobenzene | ND | | 120 | 33 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 1,4-Dichlorobenzene | ND | | 120 | 17 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 2-Butanone (MEK) | ND | | 620 | 370 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 2-Hexanone | ND | | 620 | 250 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **4-Isopropyltoluene** | **170** | | 120 | 42 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 620 | 40 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Acetone | ND | | 620 | 510 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **Benzene** | **52** | **J** | 120 | 23 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Bromodichloromethane | ND | | 120 | 25 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Bromoform | ND | | 120 | 62 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Bromomethane | ND | | 120 | 27 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Carbon disulfide | ND | | 120 | 56 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Carbon tetrachloride | ND | | 120 | 31 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Chlorobenzene | ND | | 120 | 16 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Chloroethane | ND | | 120 | 26 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Chloroform | ND | | 120 | 85 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Chloromethane | ND | | 120 | 29 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| cis-1,2-Dichloroethene | ND | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| cis-1,3-Dichloropropene | ND | | 120 | 30 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Cyclohexane | ND | | 120 | 27 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Dibromochloromethane | ND | | 120 | 60 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Dichlorodifluoromethane | ND | | 120 | 54 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **Ethylbenzene** | **2100** | | 120 | 36 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **Isopropylbenzene** | **160** | | 120 | 19 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **m,p-Xylene** | **9400** | | 250 | 68 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Methyl acetate | ND | | 620 | 59 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Methyl tert-butyl ether | ND | | 120 | 47 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **Methylcyclohexane** | **420** | | 120 | 58 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **Methylene Chloride** | **130** | **B** | 120 | 24 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **n-Butylbenzene** | **540** | | 120 | 36 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **N-Propylbenzene** | **880** | | 120 | 32 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **o-Xylene** | **1100** | | 120 | 16 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **sec-Butylbenzene** | **75** | **J** | 120 | 45 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Styrene | ND | | 120 | 30 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| tert-Butylbenzene | ND | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SB-13 (6-8')**
**Date Collected: 02/16/18 11:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-3**
**Matrix: Solid**
**Percent Solids: 86.4**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | | 120 | 17 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **Toluene** | **280** | | 120 | 33 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| trans-1,2-Dichloroethene | ND | | 120 | 29 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| trans-1,3-Dichloropropene | ND | | 120 | 12 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Trichloroethene | ND | | 120 | 34 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Trichlorofluoromethane | ND | | 120 | 58 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| Vinyl chloride | ND | | 120 | 41 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |
| **Xylenes, Total** | **11000** | | 250 | 68 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 14:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *53 - 146* | *02/20/18 10:43* | *02/22/18 14:59* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *49 - 148* | *02/20/18 10:43* | *02/22/18 14:59* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *60 - 140* | *02/20/18 10:43* | *02/22/18 14:59* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *50 - 149* | *02/20/18 10:43* | *02/22/18 14:59* | *1* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SB-18 (1.5-2.5)**
**Date Collected: 02/16/18 12:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-4**
**Matrix: Solid**
**Percent Solids: 74.4**

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 220 | 33 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| Acenaphthylene | ND | | 220 | 29 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Anthracene** | **67** | **J** | 220 | 56 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Benzo[a]anthracene** | **210** | **J** | 220 | 22 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Benzo[a]pyrene** | **200** | **J** | 220 | 33 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Benzo[b]fluoranthene** | **250** | | 220 | 36 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Benzo[g,h,i]perylene** | **160** | **J** | 220 | 24 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Benzo[k]fluoranthene** | **120** | **J** | 220 | 29 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Chrysene** | **220** | | 220 | 50 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| Dibenz(a,h)anthracene | ND | | 220 | 40 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Fluoranthene** | **300** | | 220 | 24 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| Fluorene | ND | | 220 | 26 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **140** | **J** | 220 | 28 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Naphthalene** | **86** | **J** | 220 | 29 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Phenanthrene** | **270** | | 220 | 33 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |
| **Pyrene** | **340** | | 220 | 26 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 20:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *82* | | *60 - 120* | *02/19/18 08:50* | *02/21/18 20:53* | *1* |
| *Nitrobenzene-d5 (Surr)* | *78* | | *53 - 120* | *02/19/18 08:50* | *02/21/18 20:53* | *1* |
| *p-Terphenyl-d14 (Surr)* | *95* | | *65 - 121* | *02/19/18 08:50* | *02/21/18 20:53* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11.8** | | 2.5 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 06:49 | 1 |
| **Barium** | **55.9** | | 0.63 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 06:49 | 1 |
| Cadmium | ND | | 0.25 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 06:49 | 1 |
| **Chromium** | **10.2** | | 0.63 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 06:49 | 1 |
| **Lead** | **12.8** | | 1.3 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 06:49 | 1 |
| Selenium | ND | | 5.1 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 06:49 | 1 |
| Silver | ND | | 0.76 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 06:49 | 1 |

### Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.19** | | 0.027 | | mg/Kg | ☼ | 02/21/18 15:20 | 02/21/18 17:08 | 1 |

**Client Sample ID: SB-22 (6"-2.5')**
**Date Collected: 02/16/18 12:45**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-5**
**Matrix: Solid**
**Percent Solids: 92.3**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1800 | 270 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| Acenaphthylene | ND | | 1800 | 240 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| Anthracene | ND | | 1800 | 450 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Benzo[a]anthracene** | **690** | **J** | 1800 | 180 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Benzo[a]pyrene** | **680** | **J** | 1800 | 270 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Benzo[b]fluoranthene** | **850** | **J** | 1800 | 290 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Benzo[g,h,i]perylene** | **450** | **J** | 1800 | 190 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Benzo[k]fluoranthene** | **440** | **J** | 1800 | 240 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Chrysene** | **750** | **J** | 1800 | 410 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| Dibenz(a,h)anthracene | ND | | 1800 | 320 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Fluoranthene** | **1300** | **J** | 1800 | 190 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| Fluorene | ND | | 1800 | 210 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Indeno[1,2,3-cd]pyrene** | **440** | **J** | 1800 | 220 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| Naphthalene | ND | | 1800 | 240 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Phenanthrene** | **560** | **J** | 1800 | 270 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |
| **Pyrene** | **1200** | **J** | 1800 | 210 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:20 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *78* | | *60 - 120* | *02/19/18 08:50* | *02/21/18 21:20* | *10* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *53 - 120* | *02/19/18 08:50* | *02/21/18 21:20* | *10* |
| *p-Terphenyl-d14 (Surr)* | *97* | | *65 - 121* | *02/19/18 08:50* | *02/21/18 21:20* | *10* |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.8** | | 2.2 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:18 | 1 |
| **Barium** | **155** | | 0.55 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:18 | 1 |
| **Cadmium** | **0.66** | | 0.22 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:18 | 1 |
| **Chromium** | **15.1** | | 0.55 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:18 | 1 |
| **Lead** | **346** | | 1.1 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:18 | 1 |
| Selenium | ND | | 4.4 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:18 | 1 |
| Silver | ND | | 0.66 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:18 | 1 |

## Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.19** | | 0.022 | | mg/Kg | ☼ | 02/21/18 15:20 | 02/21/18 17:10 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SS-1**
**Date Collected: 02/16/18 13:50**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-6**
**Matrix: Solid**
**Percent Solids: 74.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 45000 | 6600 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Acenaphthylene | ND | | 45000 | 5800 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Anthracene | ND | | 45000 | 11000 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Benzo[a]anthracene | ND | | 45000 | 4500 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Benzo[a]pyrene | ND | | 45000 | 6600 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Benzo[b]fluoranthene | ND | | 45000 | 7100 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Benzo[g,h,i]perylene | ND | | 45000 | 4700 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Benzo[k]fluoranthene | ND | | 45000 | 5800 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Chrysene | ND | | 45000 | 10000 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Dibenz(a,h)anthracene | ND | | 45000 | 7900 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| **Fluoranthene** | **7500** | **J** | 45000 | 4700 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Fluorene | ND | | 45000 | 5200 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Indeno[1,2,3-cd]pyrene | ND | | 45000 | 5500 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Naphthalene | ND | | 45000 | 5800 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| Phenanthrene | ND | | 45000 | 6600 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |
| **Pyrene** | **7900** | **J** | 45000 | 5200 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 21:48 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *0* | *X* | *60 - 120* | *02/19/18 08:50* | *02/21/18 21:48* | *20* |
| *Nitrobenzene-d5 (Surr)* | *0* | *X* | *53 - 120* | *02/19/18 08:50* | *02/21/18 21:48* | *20* |
| *p-Terphenyl-d14 (Surr)* | *0* | *X* | *65 - 121* | *02/19/18 08:50* | *02/21/18 21:48* | *20* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: SB-12 (2"-6")**
**Date Collected: 02/16/18 10:25**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-7**
**Matrix: Solid**
**Percent Solids: 84.1**

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1000 | 150 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| Acenaphthylene | ND | | 1000 | 130 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| Anthracene | ND | | 1000 | 250 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| **Benzo[a]anthracene** | **720** | **J** | 1000 | 100 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| **Benzo[a]pyrene** | **630** | **J** | 1000 | 150 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| **Benzo[b]fluoranthene** | **770** | **J** | 1000 | 160 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| **Benzo[g,h,i]perylene** | **460** | **J** | 1000 | 110 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| Benzo[k]fluoranthene | ND | | 1000 | 130 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| **Chrysene** | **700** | **J** | 1000 | 220 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| Dibenz(a,h)anthracene | ND | | 1000 | 180 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| **Fluoranthene** | **1300** | | 1000 | 110 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| Fluorene | ND | | 1000 | 120 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| Indeno[1,2,3-cd]pyrene | ND | | 1000 | 120 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| Naphthalene | ND | | 1000 | 130 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| **Phenanthrene** | **790** | **J** | 1000 | 150 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |
| **Pyrene** | **1300** | | 1000 | 120 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:16 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *83* | | *60 - 120* | *02/19/18 08:50* | *02/21/18 22:16* | *5* |
| *Nitrobenzene-d5 (Surr)* | *74* | | *53 - 120* | *02/19/18 08:50* | *02/21/18 22:16* | *5* |
| *p-Terphenyl-d14 (Surr)* | *99* | | *65 - 121* | *02/19/18 08:50* | *02/21/18 22:16* | *5* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **18.3** | | 2.4 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:22 | 1 |
| **Barium** | **116** | | 0.59 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:22 | 1 |
| Cadmium | ND | | 0.24 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:22 | 1 |
| **Chromium** | **14.6** | | 0.59 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:22 | 1 |
| **Lead** | **63.3** | | 1.2 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:22 | 1 |
| Selenium | ND | | 4.7 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:22 | 1 |
| Silver | ND | | 0.71 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:22 | 1 |

### Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.099** | | 0.024 | | mg/Kg | ☼ | 02/21/18 15:20 | 02/21/18 17:11 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: MW-2**
**Date Collected: 02/16/18 13:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-8**
**Matrix: Water**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.42 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.0 | 0.62 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,1,2-Trichloroethane | ND | | 2.0 | 0.46 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,1-Dichloroethane | ND | | 2.0 | 0.76 | ug/L | | | 02/20/18 04:12 | 2 |
| **1,1-Dichloroethene** | **1.4** | **J** | 2.0 | 0.58 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 0.82 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.78 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,2-Dibromoethane | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,2-Dichlorobenzene | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,2-Dichloroethane | ND | | 2.0 | 0.42 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,2-Dichloropropane | ND | | 2.0 | 1.4 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,3-Dichlorobenzene | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 04:12 | 2 |
| 1,4-Dichlorobenzene | ND | | 2.0 | 1.7 | ug/L | | | 02/20/18 04:12 | 2 |
| 2-Butanone (MEK) | ND | | 20 | 2.6 | ug/L | | | 02/20/18 04:12 | 2 |
| 2-Hexanone | ND | | 10 | 2.5 | ug/L | | | 02/20/18 04:12 | 2 |
| 4-Isopropyltoluene | ND | | 2.0 | 0.62 | ug/L | | | 02/20/18 04:12 | 2 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 10 | 4.2 | ug/L | | | 02/20/18 04:12 | 2 |
| Acetone | ND | | 20 | 6.0 | ug/L | | | 02/20/18 04:12 | 2 |
| Benzene | ND | | 2.0 | 0.82 | ug/L | | | 02/20/18 04:12 | 2 |
| Bromodichloromethane | ND | | 2.0 | 0.78 | ug/L | | | 02/20/18 04:12 | 2 |
| Bromoform | ND | | 2.0 | 0.52 | ug/L | | | 02/20/18 04:12 | 2 |
| Bromomethane | ND | | 2.0 | 1.4 | ug/L | | | 02/20/18 04:12 | 2 |
| Carbon disulfide | ND | | 2.0 | 0.38 | ug/L | | | 02/20/18 04:12 | 2 |
| Carbon tetrachloride | ND | | 2.0 | 0.54 | ug/L | | | 02/20/18 04:12 | 2 |
| Chlorobenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 04:12 | 2 |
| Chloroethane | ND | | 2.0 | 0.64 | ug/L | | | 02/20/18 04:12 | 2 |
| Chloroform | ND | | 2.0 | 0.68 | ug/L | | | 02/20/18 04:12 | 2 |
| Chloromethane | ND | | 2.0 | 0.70 | ug/L | | | 02/20/18 04:12 | 2 |
| cis-1,3-Dichloropropene | ND | | 2.0 | 0.72 | ug/L | | | 02/20/18 04:12 | 2 |
| Cyclohexane | ND | | 2.0 | 0.36 | ug/L | | | 02/20/18 04:12 | 2 |
| Dibromochloromethane | ND | | 2.0 | 0.64 | ug/L | | | 02/20/18 04:12 | 2 |
| Dichlorodifluoromethane | ND | | 2.0 | 1.4 | ug/L | | | 02/20/18 04:12 | 2 |
| Ethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 04:12 | 2 |
| Isopropylbenzene | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 04:12 | 2 |
| m,p-Xylene | ND | | 4.0 | 1.3 | ug/L | | | 02/20/18 04:12 | 2 |
| Methyl acetate | ND | | 5.0 | 2.6 | ug/L | | | 02/20/18 04:12 | 2 |
| Methyl tert-butyl ether | ND | | 2.0 | 0.32 | ug/L | | | 02/20/18 04:12 | 2 |
| Methylcyclohexane | ND | | 2.0 | 0.32 | ug/L | | | 02/20/18 04:12 | 2 |
| **Methylene Chloride** | **0.96** | **J** | 2.0 | 0.88 | ug/L | | | 02/20/18 04:12 | 2 |
| **n-Butylbenzene** | **7.5** | | 2.0 | 1.3 | ug/L | | | 02/20/18 04:12 | 2 |
| N-Propylbenzene | ND | | 2.0 | 1.4 | ug/L | | | 02/20/18 04:12 | 2 |
| o-Xylene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 04:12 | 2 |
| sec-Butylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 04:12 | 2 |
| Styrene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 04:12 | 2 |
| tert-Butylbenzene | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 04:12 | 2 |
| **Tetrachloroethene** | **6.3** | | 2.0 | 0.72 | ug/L | | | 02/20/18 04:12 | 2 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

**Client Sample ID: MW-2**
**Date Collected: 02/16/18 13:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131427-8**
**Matrix: Water**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 2.0 | 1.0 | ug/L | | | 02/20/18 04:12 | 2 |
| **trans-1,2-Dichloroethene** | **9.2** | | 2.0 | 1.8 | ug/L | | | 02/20/18 04:12 | 2 |
| trans-1,3-Dichloropropene | ND | | 2.0 | 0.74 | ug/L | | | 02/20/18 04:12 | 2 |
| **Trichloroethene** | **11** | | 2.0 | 0.92 | ug/L | | | 02/20/18 04:12 | 2 |
| Trichlorofluoromethane | ND | | 2.0 | 1.8 | ug/L | | | 02/20/18 04:12 | 2 |
| Xylenes, Total | ND | | 4.0 | 1.3 | ug/L | | | 02/20/18 04:12 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *77 - 120* | | *02/20/18 04:12* | *2* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *73 - 120* | | *02/20/18 04:12* | *2* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* | | *02/20/18 04:12* | *2* |

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **cis-1,2-Dichloroethene** | **470** | | 10 | 8.1 | ug/L | | | 02/20/18 17:04 | 10 |
| **Vinyl chloride** | **360** | | 10 | 9.0 | ug/L | | | 02/20/18 17:04 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *77 - 120* | | *02/20/18 17:04* | *10* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *73 - 120* | | *02/20/18 17:04* | *10* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *02/20/18 17:04* | *10* |

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (53-146) | (49-148) | (60-140) | (50-149) |
| 480-131427-1 | SB-11 (7-8') | 101 | 96 | 97 | 102 |
| 480-131427-2 | SB-12 (8-9') | 100 | 95 | 89 | 96 |
| 480-131427-3 | SB-13 (6-8') | 97 | 97 | 89 | 99 |
| LCS 480-400648/1-A | Lab Control Sample | 100 | 100 | 105 | 105 |
| MB 480-400648/2-A | Method Blank | 103 | 95 | 95 | 102 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | DCA | BFB | TOL |
| Lab Sample ID | Client Sample ID | (77-120) | (73-120) | (80-120) |
| 480-131427-8 | MW-2 | 97 | 98 | 103 |
| 480-131427-8 - DL | MW-2 | 100 | 100 | 101 |
| LCS 480-400512/8 | Lab Control Sample | 92 | 100 | 102 |
| LCS 480-400616/5 | Lab Control Sample | 99 | 102 | 103 |
| MB 480-400512/28 | Method Blank | 101 | 101 | 105 |
| MB 480-400616/7 | Method Blank | 102 | 97 | 99 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | FBP | NBZ | TPHd14 |
| Lab Sample ID | Client Sample ID | (60-120) | (53-120) | (65-121) |
| 480-131427-4 | SB-18 (1.5-2.5) | 82 | 78 | 95 |
| 480-131427-5 | SB-22 (6"-2.5') | 78 | 76 | 97 |
| 480-131427-6 | SS-1 | 0 X | 0 X | 0 X |
| 480-131427-7 | SB-12 (2"-6") | 83 | 74 | 99 |
| LCS 480-400401/2-A | Lab Control Sample | 87 | 76 | 100 |
| MB 480-400401/1-A | Method Blank | 85 | 83 | 97 |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-400512/28**
**Matrix: Water**
**Analysis Batch: 400512**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 02/20/18 00:20 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 02/20/18 00:20 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 02/20/18 00:20 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 02/20/18 00:20 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.31 | ug/L | | | 02/20/18 00:20 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 02/20/18 00:20 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 02/20/18 00:20 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 02/20/18 00:20 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 02/20/18 00:20 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 02/20/18 00:20 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 02/20/18 00:20 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 02/20/18 00:20 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 02/20/18 00:20 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 00:20 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 02/20/18 00:20 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 02/20/18 00:20 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 02/20/18 00:20 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 02/20/18 00:20 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 02/20/18 00:20 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 02/20/18 00:20 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 02/20/18 00:20 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 02/20/18 00:20 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 02/20/18 00:20 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 02/20/18 00:20 | 1 |
| m,p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 02/20/18 00:20 | 1 |
| Methyl acetate | ND | | 2.5 | 1.3 | ug/L | | | 02/20/18 00:20 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 02/20/18 00:20 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 02/20/18 00:20 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 02/20/18 00:20 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.64 | ug/L | | | 02/20/18 00:20 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.69 | ug/L | | | 02/20/18 00:20 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 02/20/18 00:20 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 00:20 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 02/20/18 00:20 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-400512/28**
**Matrix: Water**
**Analysis Batch: 400512**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| tert-Butylbenzene | ND | | 1.0 | 0.81 | ug/L | | | 02/20/18 00:20 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 02/20/18 00:20 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 02/20/18 00:20 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 02/20/18 00:20 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 02/20/18 00:20 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 02/20/18 00:20 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 02/20/18 00:20 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 02/20/18 00:20 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 02/20/18 00:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *77 - 120* | | *02/20/18 00:20* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *73 - 120* | | *02/20/18 00:20* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 120* | | *02/20/18 00:20* | *1* |

**Lab Sample ID: LCS 480-400512/8**
**Matrix: Water**
**Analysis Batch: 400512**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 23.2 | | ug/L | | 93 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 19.7 | | ug/L | | 79 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 28.6 | | ug/L | | 114 | 61 - 148 |
| 1,1,2-Trichloroethane | 25.0 | 23.0 | | ug/L | | 92 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 25.5 | | ug/L | | 102 | 77 - 120 |
| 1,1-Dichloroethene | 25.0 | 25.0 | | ug/L | | 100 | 66 - 127 |
| 1,2,4-Trichlorobenzene | 25.0 | 24.5 | | ug/L | | 98 | 79 - 122 |
| 1,2,4-Trimethylbenzene | 25.0 | 23.8 | | ug/L | | 95 | 76 - 121 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 14.5 | | ug/L | | 58 | 56 - 134 |
| 1,2-Dibromoethane | 25.0 | 22.5 | | ug/L | | 90 | 77 - 120 |
| 1,2-Dichlorobenzene | 25.0 | 24.1 | | ug/L | | 97 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 23.1 | | ug/L | | 93 | 75 - 120 |
| 1,2-Dichloropropane | 25.0 | 25.0 | | ug/L | | 100 | 76 - 120 |
| 1,3,5-Trimethylbenzene | 25.0 | 23.3 | | ug/L | | 93 | 77 - 121 |
| 1,3-Dichlorobenzene | 25.0 | 24.4 | | ug/L | | 98 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 23.9 | | ug/L | | 96 | 80 - 120 |
| 2-Butanone (MEK) | 125 | 94.8 | | ug/L | | 76 | 57 - 140 |
| 2-Hexanone | 125 | 90.5 | | ug/L | | 72 | 65 - 127 |
| 4-Isopropyltoluene | 25.0 | 24.3 | | ug/L | | 97 | 73 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 93.5 | | ug/L | | 75 | 71 - 125 |
| Acetone | 125 | 93.2 | | ug/L | | 75 | 56 - 142 |
| Benzene | 25.0 | 25.7 | | ug/L | | 103 | 71 - 124 |
| Bromodichloromethane | 25.0 | 23.5 | | ug/L | | 94 | 80 - 122 |
| Bromoform | 25.0 | 19.6 | | ug/L | | 78 | 61 - 132 |
| Bromomethane | 25.0 | 27.5 | | ug/L | | 110 | 55 - 144 |
| Carbon disulfide | 25.0 | 22.8 | | ug/L | | 91 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 23.2 | | ug/L | | 93 | 72 - 134 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-400512/8**
**Matrix: Water**
**Analysis Batch: 400512**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | 25.0 | 25.8 | | ug/L | | 103 | 80 - 120 |
| Chloroethane | 25.0 | 27.7 | | ug/L | | 111 | 69 - 136 |
| Chloroform | 25.0 | 24.8 | | ug/L | | 99 | 73 - 127 |
| Chloromethane | 25.0 | 25.9 | | ug/L | | 104 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 25.2 | | ug/L | | 101 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 23.8 | | ug/L | | 95 | 74 - 124 |
| Cyclohexane | 25.0 | 24.5 | | ug/L | | 98 | 59 - 135 |
| Dibromochloromethane | 25.0 | 22.1 | | ug/L | | 88 | 75 - 125 |
| Dichlorodifluoromethane | 25.0 | 29.3 | | ug/L | | 117 | 59 - 135 |
| Ethylbenzene | 25.0 | 24.3 | | ug/L | | 97 | 77 - 123 |
| Isopropylbenzene | 25.0 | 22.8 | | ug/L | | 91 | 77 - 122 |
| m,p-Xylene | 25.0 | 24.2 | | ug/L | | 97 | 76 - 122 |
| Methyl acetate | 50.0 | 39.5 | | ug/L | | 79 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 22.2 | | ug/L | | 89 | 77 - 120 |
| Methylcyclohexane | 25.0 | 25.5 | | ug/L | | 102 | 68 - 134 |
| Methylene Chloride | 25.0 | 24.9 | | ug/L | | 100 | 75 - 124 |
| n-Butylbenzene | 25.0 | 23.9 | | ug/L | | 96 | 71 - 128 |
| N-Propylbenzene | 25.0 | 23.4 | | ug/L | | 93 | 75 - 127 |
| o-Xylene | 25.0 | 24.6 | | ug/L | | 98 | 76 - 122 |
| sec-Butylbenzene | 25.0 | 24.1 | | ug/L | | 97 | 74 - 127 |
| Styrene | 25.0 | 24.6 | | ug/L | | 98 | 80 - 120 |
| tert-Butylbenzene | 25.0 | 24.5 | | ug/L | | 98 | 75 - 123 |
| Tetrachloroethene | 25.0 | 26.6 | | ug/L | | 106 | 74 - 122 |
| Toluene | 25.0 | 25.3 | | ug/L | | 101 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 25.5 | | ug/L | | 102 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 23.0 | | ug/L | | 92 | 80 - 120 |
| Trichloroethene | 25.0 | 24.0 | | ug/L | | 96 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 28.6 | | ug/L | | 114 | 62 - 150 |
| Vinyl chloride | 25.0 | 27.8 | | ug/L | | 111 | 65 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *77 - 120* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *73 - 120* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |

**Lab Sample ID: MB 480-400616/7**
**Matrix: Water**
**Analysis Batch: 400616**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 12:07 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-400616/7**
**Matrix: Water**
**Analysis Batch: 400616**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 02/20/18 12:07 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 02/20/18 12:07 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 02/20/18 12:07 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 02/20/18 12:07 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.31 | ug/L | | | 02/20/18 12:07 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 02/20/18 12:07 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 02/20/18 12:07 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 02/20/18 12:07 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 02/20/18 12:07 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 02/20/18 12:07 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 02/20/18 12:07 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 02/20/18 12:07 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 02/20/18 12:07 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 12:07 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 02/20/18 12:07 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 02/20/18 12:07 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 02/20/18 12:07 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 02/20/18 12:07 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 02/20/18 12:07 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 02/20/18 12:07 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 02/20/18 12:07 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 02/20/18 12:07 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 02/20/18 12:07 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 02/20/18 12:07 | 1 |
| m,p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 02/20/18 12:07 | 1 |
| Methyl acetate | ND | | 2.5 | 1.3 | ug/L | | | 02/20/18 12:07 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 02/20/18 12:07 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 02/20/18 12:07 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 02/20/18 12:07 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.64 | ug/L | | | 02/20/18 12:07 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.69 | ug/L | | | 02/20/18 12:07 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 02/20/18 12:07 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 12:07 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 02/20/18 12:07 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.81 | ug/L | | | 02/20/18 12:07 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 02/20/18 12:07 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 02/20/18 12:07 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 02/20/18 12:07 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 02/20/18 12:07 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 02/20/18 12:07 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 02/20/18 12:07 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 02/20/18 12:07 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-400616/7**
**Matrix: Water**
**Analysis Batch: 400616**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 02/20/18 12:07 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *77 - 120* | | *02/20/18 12:07* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *73 - 120* | | *02/20/18 12:07* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *02/20/18 12:07* | *1* |

**Lab Sample ID: LCS 480-400616/5**
**Matrix: Water**
**Analysis Batch: 400616**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 26.5 | | ug/L | | 106 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.9 | | ug/L | | 99 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 29.6 | | ug/L | | 118 | 61 - 148 |
| 1,1,2-Trichloroethane | 25.0 | 27.2 | | ug/L | | 109 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 28.3 | | ug/L | | 113 | 77 - 120 |
| 1,1-Dichloroethene | 25.0 | 28.7 | | ug/L | | 115 | 66 - 127 |
| 1,2,4-Trichlorobenzene | 25.0 | 26.3 | | ug/L | | 105 | 79 - 122 |
| 1,2,4-Trimethylbenzene | 25.0 | 26.3 | | ug/L | | 105 | 76 - 121 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 20.0 | | ug/L | | 80 | 56 - 134 |
| 1,2-Dibromoethane | 25.0 | 27.0 | | ug/L | | 108 | 77 - 120 |
| 1,2-Dichlorobenzene | 25.0 | 26.9 | | ug/L | | 107 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 26.9 | | ug/L | | 108 | 75 - 120 |
| 1,2-Dichloropropane | 25.0 | 28.5 | | ug/L | | 114 | 76 - 120 |
| 1,3,5-Trimethylbenzene | 25.0 | 26.1 | | ug/L | | 105 | 77 - 121 |
| 1,3-Dichlorobenzene | 25.0 | 27.2 | | ug/L | | 109 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 26.4 | | ug/L | | 106 | 80 - 120 |
| 2-Butanone (MEK) | 125 | 134 | | ug/L | | 107 | 57 - 140 |
| 2-Hexanone | 125 | 125 | | ug/L | | 100 | 65 - 127 |
| 4-Isopropyltoluene | 25.0 | 27.1 | | ug/L | | 108 | 73 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 128 | | ug/L | | 102 | 71 - 125 |
| Acetone | 125 | 129 | | ug/L | | 103 | 56 - 142 |
| Benzene | 25.0 | 28.5 | | ug/L | | 114 | 71 - 124 |
| Bromodichloromethane | 25.0 | 26.1 | | ug/L | | 104 | 80 - 122 |
| Bromoform | 25.0 | 24.9 | | ug/L | | 100 | 61 - 132 |
| Bromomethane | 25.0 | 29.2 | | ug/L | | 117 | 55 - 144 |
| Carbon disulfide | 25.0 | 26.1 | | ug/L | | 104 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 26.5 | | ug/L | | 106 | 72 - 134 |
| Chlorobenzene | 25.0 | 28.1 | | ug/L | | 113 | 80 - 120 |
| Chloroethane | 25.0 | 31.0 | | ug/L | | 124 | 69 - 136 |
| Chloroform | 25.0 | 27.1 | | ug/L | | 108 | 73 - 127 |
| Chloromethane | 25.0 | 27.7 | | ug/L | | 111 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 28.1 | | ug/L | | 112 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 27.5 | | ug/L | | 110 | 74 - 124 |
| Cyclohexane | 25.0 | 27.3 | | ug/L | | 109 | 59 - 135 |
| Dibromochloromethane | 25.0 | 26.5 | | ug/L | | 106 | 75 - 125 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-400616/5**
**Matrix: Water**
**Analysis Batch: 400616**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 25.0 | 31.8 | | ug/L | | 127 | 59 - 135 |
| Ethylbenzene | 25.0 | 27.2 | | ug/L | | 109 | 77 - 123 |
| Isopropylbenzene | 25.0 | 25.9 | | ug/L | | 103 | 77 - 122 |
| m,p-Xylene | 25.0 | 26.8 | | ug/L | | 107 | 76 - 122 |
| Methyl acetate | 50.0 | 54.8 | | ug/L | | 110 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 26.6 | | ug/L | | 106 | 77 - 120 |
| Methylcyclohexane | 25.0 | 30.1 | | ug/L | | 120 | 68 - 134 |
| Methylene Chloride | 25.0 | 34.8 | * | ug/L | | 139 | 75 - 124 |
| n-Butylbenzene | 25.0 | 27.1 | | ug/L | | 109 | 71 - 128 |
| N-Propylbenzene | 25.0 | 26.8 | | ug/L | | 107 | 75 - 127 |
| o-Xylene | 25.0 | 26.9 | | ug/L | | 108 | 76 - 122 |
| sec-Butylbenzene | 25.0 | 27.0 | | ug/L | | 108 | 74 - 127 |
| Styrene | 25.0 | 26.9 | | ug/L | | 108 | 80 - 120 |
| tert-Butylbenzene | 25.0 | 26.8 | | ug/L | | 107 | 75 - 123 |
| Tetrachloroethene | 25.0 | 28.9 | | ug/L | | 115 | 74 - 122 |
| Toluene | 25.0 | 27.0 | | ug/L | | 108 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 28.3 | | ug/L | | 113 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 26.3 | | ug/L | | 105 | 80 - 120 |
| Trichloroethene | 25.0 | 26.7 | | ug/L | | 107 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 29.7 | | ug/L | | 119 | 62 - 150 |
| Vinyl chloride | 25.0 | 30.7 | | ug/L | | 123 | 65 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* |
| *Toluene-d8 (Surr)* | *103* | | *80 - 120* |

**Lab Sample ID: MB 480-400648/2-A**
**Matrix: Solid**
**Analysis Batch: 400787**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400648**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 100 | 16 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 100 | 50 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 100 | 21 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1-Dichloroethane | ND | | 100 | 31 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1-Dichloroethene | ND | | 100 | 35 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 100 | 38 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 100 | 50 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dibromoethane | ND | | 100 | 18 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 100 | 26 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dichloroethane | ND | | 100 | 41 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dichloropropane | ND | | 100 | 16 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 100 | 30 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 100 | 27 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 100 | 14 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-400648/2-A**
**Matrix: Solid**
**Analysis Batch: 400787**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400648**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone (MEK) | ND | | 500 | 300 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 2-Hexanone | ND | | 500 | 210 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 4-Isopropyltoluene | ND | | 100 | 34 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | 32 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Acetone | ND | | 500 | 410 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Benzene | ND | | 100 | 19 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Bromodichloromethane | ND | | 100 | 20 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Bromoform | ND | | 100 | 50 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Bromomethane | ND | | 100 | 22 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Carbon disulfide | ND | | 100 | 46 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Carbon tetrachloride | ND | | 100 | 26 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Chlorobenzene | ND | | 100 | 13 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Chloroethane | ND | | 100 | 21 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Chloroform | ND | | 100 | 69 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Chloromethane | ND | | 100 | 24 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 100 | 24 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Cyclohexane | ND | | 100 | 22 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Dibromochloromethane | ND | | 100 | 48 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Dichlorodifluoromethane | ND | | 100 | 44 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Ethylbenzene | ND | | 100 | 29 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Isopropylbenzene | ND | | 100 | 15 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| m,p-Xylene | ND | | 200 | 55 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Methyl acetate | ND | | 500 | 48 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Methyl tert-butyl ether | ND | | 100 | 38 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Methylcyclohexane | ND | | 100 | 47 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Methylene Chloride | 88.0 | J | 100 | 20 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| n-Butylbenzene | ND | | 100 | 29 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| N-Propylbenzene | ND | | 100 | 26 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| o-Xylene | ND | | 100 | 13 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| sec-Butylbenzene | ND | | 100 | 37 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Styrene | ND | | 100 | 24 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| tert-Butylbenzene | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Tetrachloroethene | ND | | 100 | 13 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Toluene | ND | | 100 | 27 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 100 | 24 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 100 | 9.8 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Trichloroethene | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Trichlorofluoromethane | ND | | 100 | 47 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Vinyl chloride | ND | | 100 | 34 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Xylenes, Total | ND | | 200 | 55 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *53 - 146* | *02/20/18 10:43* | *02/21/18 11:01* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *49 - 148* | *02/20/18 10:43* | *02/21/18 11:01* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *60 - 140* | *02/20/18 10:43* | *02/21/18 11:01* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *50 - 149* | *02/20/18 10:43* | *02/21/18 11:01* | *1* |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-400648/1-A**
**Matrix: Solid**
**Analysis Batch: 400787**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400648**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2500 | 2390 | | ug/Kg | | 96 | 68 - 130 |
| 1,1,2,2-Tetrachloroethane | 2500 | 2260 | | ug/Kg | | 90 | 73 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 | 2560 | | ug/Kg | | 102 | 10 - 179 |
| 1,1,2-Trichloroethane | 2500 | 2550 | | ug/Kg | | 102 | 80 - 120 |
| 1,1-Dichloroethane | 2500 | 2660 | | ug/Kg | | 106 | 78 - 121 |
| 1,1-Dichloroethene | 2500 | 2540 | | ug/Kg | | 101 | 48 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2510 | | ug/Kg | | 100 | 70 - 140 |
| 1,2,4-Trimethylbenzene | 2500 | 2490 | | ug/Kg | | 100 | 77 - 127 |
| 1,2-Dibromo-3-Chloropropane | 2500 | 1680 | | ug/Kg | | 67 | 56 - 122 |
| 1,2-Dibromoethane | 2500 | 2410 | | ug/Kg | | 96 | 80 - 120 |
| 1,2-Dichlorobenzene | 2500 | 2530 | | ug/Kg | | 101 | 78 - 125 |
| 1,2-Dichloroethane | 2500 | 2540 | | ug/Kg | | 101 | 74 - 127 |
| 1,2-Dichloropropane | 2500 | 2590 | | ug/Kg | | 104 | 80 - 120 |
| 1,3,5-Trimethylbenzene | 2500 | 2510 | | ug/Kg | | 100 | 79 - 120 |
| 1,3-Dichlorobenzene | 2500 | 2550 | | ug/Kg | | 102 | 80 - 120 |
| 1,4-Dichlorobenzene | 2500 | 2510 | | ug/Kg | | 100 | 80 - 120 |
| 2-Butanone (MEK) | 12500 | 11200 | | ug/Kg | | 89 | 54 - 149 |
| 2-Hexanone | 12500 | 10600 | | ug/Kg | | 85 | 59 - 127 |
| 4-Isopropyltoluene | 2500 | 2620 | | ug/Kg | | 105 | 80 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 12500 | 11100 | | ug/Kg | | 88 | 74 - 120 |
| Acetone | 12500 | 8220 | | ug/Kg | | 66 | 47 - 141 |
| Benzene | 2500 | 2670 | | ug/Kg | | 107 | 77 - 125 |
| Bromodichloromethane | 2500 | 2280 | | ug/Kg | | 91 | 71 - 121 |
| Bromoform | 2500 | 2050 | | ug/Kg | | 82 | 48 - 125 |
| Bromomethane | 2500 | 2720 | | ug/Kg | | 109 | 39 - 149 |
| Carbon disulfide | 2500 | 2170 | | ug/Kg | | 87 | 40 - 136 |
| Carbon tetrachloride | 2500 | 2410 | | ug/Kg | | 97 | 54 - 135 |
| Chlorobenzene | 2500 | 2630 | | ug/Kg | | 105 | 76 - 126 |
| Chloroethane | 2500 | 2850 | | ug/Kg | | 114 | 23 - 150 |
| Chloroform | 2500 | 2610 | | ug/Kg | | 105 | 78 - 120 |
| Chloromethane | 2500 | 2530 | | ug/Kg | | 101 | 61 - 124 |
| cis-1,2-Dichloroethene | 2500 | 2600 | | ug/Kg | | 104 | 79 - 124 |
| cis-1,3-Dichloropropene | 2500 | 2440 | | ug/Kg | | 97 | 75 - 121 |
| Cyclohexane | 2500 | 2620 | | ug/Kg | | 105 | 49 - 129 |
| Dibromochloromethane | 2500 | 2300 | | ug/Kg | | 92 | 64 - 120 |
| Dichlorodifluoromethane | 2500 | 2950 | | ug/Kg | | 118 | 10 - 150 |
| Ethylbenzene | 2500 | 2590 | | ug/Kg | | 104 | 78 - 124 |
| Isopropylbenzene | 2500 | 2510 | | ug/Kg | | 100 | 76 - 120 |
| m,p-Xylene | 2500 | 2520 | | ug/Kg | | 101 | 77 - 125 |
| Methyl acetate | 5000 | 5070 | | ug/Kg | | 101 | 71 - 123 |
| Methyl tert-butyl ether | 2500 | 2390 | | ug/Kg | | 96 | 67 - 137 |
| Methylcyclohexane | 2500 | 2870 | | ug/Kg | | 115 | 50 - 130 |
| Methylene Chloride | 2500 | 2490 | | ug/Kg | | 100 | 75 - 118 |
| n-Butylbenzene | 2500 | 2600 | | ug/Kg | | 104 | 80 - 120 |
| N-Propylbenzene | 2500 | 2600 | | ug/Kg | | 104 | 76 - 120 |
| o-Xylene | 2500 | 2590 | | ug/Kg | | 103 | 80 - 124 |
| sec-Butylbenzene | 2500 | 2650 | | ug/Kg | | 106 | 79 - 120 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-400648/1-A**
**Matrix: Solid**
**Analysis Batch: 400787**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400648**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Styrene | 2500 | 2550 | | ug/Kg | | 102 | 80 - 120 |
| tert-Butylbenzene | 2500 | 2540 | | ug/Kg | | 102 | 78 - 120 |
| Tetrachloroethene | 2500 | 2740 | | ug/Kg | | 110 | 73 - 133 |
| Toluene | 2500 | 2580 | | ug/Kg | | 103 | 75 - 124 |
| trans-1,2-Dichloroethene | 2500 | 2550 | | ug/Kg | | 102 | 74 - 129 |
| trans-1,3-Dichloropropene | 2500 | 2350 | | ug/Kg | | 94 | 73 - 120 |
| Trichloroethene | 2500 | 2550 | | ug/Kg | | 102 | 75 - 131 |
| Trichlorofluoromethane | 2500 | 3220 | | ug/Kg | | 129 | 29 - 158 |
| Vinyl chloride | 2500 | 2850 | | ug/Kg | | 114 | 59 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *53 - 146* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *49 - 148* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *105* | | *50 - 149* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-400401/1-A**
**Matrix: Solid**
**Analysis Batch: 400911**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400401**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 160 | 24 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Acenaphthylene | ND | | 160 | 21 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Anthracene | ND | | 160 | 41 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[a]anthracene | ND | | 160 | 16 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[a]pyrene | ND | | 160 | 24 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[b]fluoranthene | ND | | 160 | 26 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[g,h,i]perylene | ND | | 160 | 17 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[k]fluoranthene | ND | | 160 | 21 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Chrysene | ND | | 160 | 37 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Dibenz(a,h)anthracene | ND | | 160 | 29 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Fluoranthene | ND | | 160 | 17 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Fluorene | ND | | 160 | 19 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 160 | 20 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Naphthalene | ND | | 160 | 21 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Phenanthrene | ND | | 160 | 24 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Pyrene | ND | | 160 | 19 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *60 - 120* | *02/19/18 08:50* | *02/21/18 16:48* | *1* |
| *Nitrobenzene-d5 (Surr)* | *83* | | *53 - 120* | *02/19/18 08:50* | *02/21/18 16:48* | *1* |
| *p-Terphenyl-d14 (Surr)* | *97* | | *65 - 121* | *02/19/18 08:50* | *02/21/18 16:48* | *1* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-400401/2-A**
**Matrix: Solid**
**Analysis Batch: 400911**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400401**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1650 | 1560 | | ug/Kg | | 95 | 62 - 120 |
| Acenaphthylene | 1650 | 1460 | | ug/Kg | | 88 | 58 - 121 |
| Anthracene | 1650 | 1500 | | ug/Kg | | 91 | 62 - 120 |
| Benzo[a]anthracene | 1650 | 1640 | | ug/Kg | | 100 | 65 - 120 |
| Benzo[a]pyrene | 1650 | 1600 | | ug/Kg | | 97 | 64 - 120 |
| Benzo[b]fluoranthene | 1650 | 1580 | | ug/Kg | | 96 | 64 - 120 |
| Benzo[g,h,i]perylene | 1650 | 1540 | | ug/Kg | | 94 | 45 - 145 |
| Benzo[k]fluoranthene | 1650 | 1630 | | ug/Kg | | 99 | 65 - 120 |
| Chrysene | 1650 | 1610 | | ug/Kg | | 98 | 64 - 120 |
| Dibenz(a,h)anthracene | 1650 | 1580 | | ug/Kg | | 96 | 54 - 132 |
| Fluoranthene | 1650 | 1550 | | ug/Kg | | 94 | 62 - 120 |
| Fluorene | 1650 | 1500 | | ug/Kg | | 91 | 63 - 120 |
| Indeno[1,2,3-cd]pyrene | 1650 | 1570 | | ug/Kg | | 95 | 56 - 134 |
| Naphthalene | 1650 | 1330 | | ug/Kg | | 81 | 55 - 120 |
| Phenanthrene | 1650 | 1500 | | ug/Kg | | 91 | 60 - 120 |
| Pyrene | 1650 | 1610 | | ug/Kg | | 98 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *87* | | *60 - 120* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *53 - 120* |
| *p-Terphenyl-d14 (Surr)* | *100* | | *65 - 121* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-400455/1-A**
**Matrix: Solid**
**Analysis Batch: 400892**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400455**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 2.0 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Barium | ND | | 0.50 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Cadmium | ND | | 0.20 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Chromium | ND | | 0.50 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Lead | ND | | 1.0 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Selenium | ND | | 4.0 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Silver | ND | | 0.60 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |

**Lab Sample ID: LCSSRM 480-400455/2-A**
**Matrix: Solid**
**Analysis Batch: 400892**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400455**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 146 | 115.2 | | mg/Kg | | 78.9 | 69.9 - 132.9 |
| Barium | 102 | 80.42 | | mg/Kg | | 78.8 | 71.5 - 136.3 |
| Cadmium | 63.2 | 52.37 | | mg/Kg | | 82.9 | 73.3 - 141.5 |

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: LCSSRM 480-400455/2-A**
**Matrix: Solid**
**Analysis Batch: 400892**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400455**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chromium | 89.3 | 72.36 | | mg/Kg | | 81.0 | 69.1 - 143.3 |
| Lead | 98.5 | 88.42 | | mg/Kg | | 89.8 | 70.8 - 137.1 |
| Selenium | 136 | 105.2 | | mg/Kg | | 77.3 | 67.1 - 136.8 |
| Silver | 48.9 | 37.25 | | mg/Kg | | 76.2 | 66.5 - 139.5 |

**Lab Sample ID: 480-131427-4 MS**
**Matrix: Solid**
**Analysis Batch: 400892**

**Client Sample ID: SB-18 (1.5-2.5)**
**Prep Type: Total/NA**
**Prep Batch: 400455**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 11.8 | | 52.4 | 60.78 | | mg/Kg | ☼ | 93 | 75 - 125 |
| Barium | 55.9 | | 52.4 | 111.4 | | mg/Kg | ☼ | 106 | 75 - 125 |
| Cadmium | ND | | 52.4 | 49.71 | | mg/Kg | ☼ | 95 | 75 - 125 |
| Chromium | 10.2 | | 52.4 | 71.62 | | mg/Kg | ☼ | 117 | 75 - 125 |
| Lead | 12.8 | | 52.4 | 64.97 | | mg/Kg | ☼ | 100 | 75 - 125 |
| Selenium | ND | | 52.4 | 47.27 | | mg/Kg | ☼ | 88 | 75 - 125 |
| Silver | ND | | 13.1 | 12.18 | | mg/Kg | ☼ | 93 | 75 - 125 |

**Lab Sample ID: 480-131427-4 MSD**
**Matrix: Solid**
**Analysis Batch: 400892**

**Client Sample ID: SB-18 (1.5-2.5)**
**Prep Type: Total/NA**
**Prep Batch: 400455**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 11.8 | | 53.1 | 63.60 | | mg/Kg | ☼ | 98 | 75 - 125 | 5 | 20 |
| Barium | 55.9 | | 53.1 | 104.8 | | mg/Kg | ☼ | 92 | 75 - 125 | 6 | 20 |
| Cadmium | ND | | 53.1 | 49.56 | | mg/Kg | ☼ | 93 | 75 - 125 | 0 | 20 |
| Chromium | 10.2 | | 53.1 | 63.50 | | mg/Kg | ☼ | 101 | 75 - 125 | 12 | 20 |
| Lead | 12.8 | | 53.1 | 63.38 | | mg/Kg | ☼ | 95 | 75 - 125 | 2 | 20 |
| Selenium | ND | | 53.1 | 46.90 | | mg/Kg | ☼ | 87 | 75 - 125 | 1 | 20 |
| Silver | ND | | 13.3 | 12.07 | | mg/Kg | ☼ | 91 | 75 - 125 | 1 | 20 |

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 480-400925/1-A**
**Matrix: Solid**
**Analysis Batch: 400946**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400925**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.019 | | mg/Kg | | 02/21/18 15:20 | 02/21/18 16:49 | 1 |

## Method: 7471B - Mercury (CVAA) (Continued)

**Lab Sample ID: LCSSRM 480-400925/2-A ^10**
**Matrix: Solid**
**Analysis Batch: 400946**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400925**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 12.6 | 13.36 | | mg/Kg | | 106.0 | 44.4 - 128.6 |

## GC/MS VOA

### Analysis Batch: 400512

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-8 | MW-2 | Total/NA | Water | 8260C | |
| MB 480-400512/28 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-400512/8 | Lab Control Sample | Total/NA | Water | 8260C | |

### Analysis Batch: 400616

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-8 - DL | MW-2 | Total/NA | Water | 8260C | |
| MB 480-400616/7 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-400616/5 | Lab Control Sample | Total/NA | Water | 8260C | |

### Prep Batch: 400648

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-1 | SB-11 (7-8') | Total/NA | Solid | 5035A_H | |
| 480-131427-2 | SB-12 (8-9') | Total/NA | Solid | 5035A_H | |
| 480-131427-3 | SB-13 (6-8') | Total/NA | Solid | 5035A_H | |
| MB 480-400648/2-A | Method Blank | Total/NA | Solid | 5035A_H | |
| LCS 480-400648/1-A | Lab Control Sample | Total/NA | Solid | 5035A_H | |

### Analysis Batch: 400787

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-1 | SB-11 (7-8') | Total/NA | Solid | 8260C | 400648 |
| MB 480-400648/2-A | Method Blank | Total/NA | Solid | 8260C | 400648 |
| LCS 480-400648/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 400648 |

### Analysis Batch: 400993

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-2 | SB-12 (8-9') | Total/NA | Solid | 8260C | 400648 |
| 480-131427-3 | SB-13 (6-8') | Total/NA | Solid | 8260C | 400648 |

## GC/MS Semi VOA

### Prep Batch: 400401

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-4 | SB-18 (1.5-2.5) | Total/NA | Solid | 3550C | |
| 480-131427-5 | SB-22 (6"-2.5') | Total/NA | Solid | 3550C | |
| 480-131427-6 | SS-1 | Total/NA | Solid | 3550C | |
| 480-131427-7 | SB-12 (2"-6") | Total/NA | Solid | 3550C | |
| MB 480-400401/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 480-400401/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |

### Analysis Batch: 400911

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-4 | SB-18 (1.5-2.5) | Total/NA | Solid | 8270D | 400401 |
| 480-131427-5 | SB-22 (6"-2.5') | Total/NA | Solid | 8270D | 400401 |
| 480-131427-6 | SS-1 | Total/NA | Solid | 8270D | 400401 |
| 480-131427-7 | SB-12 (2"-6") | Total/NA | Solid | 8270D | 400401 |
| MB 480-400401/1-A | Method Blank | Total/NA | Solid | 8270D | 400401 |
| LCS 480-400401/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 400401 |

## Metals

### Prep Batch: 400455

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-4 | SB-18 (1.5-2.5) | Total/NA | Solid | 3050B | |
| 480-131427-5 | SB-22 (6"-2.5') | Total/NA | Solid | 3050B | |
| 480-131427-7 | SB-12 (2"-6") | Total/NA | Solid | 3050B | |
| MB 480-400455/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCSSRM 480-400455/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| 480-131427-4 MS | SB-18 (1.5-2.5) | Total/NA | Solid | 3050B | |
| 480-131427-4 MSD | SB-18 (1.5-2.5) | Total/NA | Solid | 3050B | |

### Analysis Batch: 400892

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-4 | SB-18 (1.5-2.5) | Total/NA | Solid | 6010C | 400455 |
| 480-131427-5 | SB-22 (6"-2.5') | Total/NA | Solid | 6010C | 400455 |
| 480-131427-7 | SB-12 (2"-6") | Total/NA | Solid | 6010C | 400455 |
| MB 480-400455/1-A | Method Blank | Total/NA | Solid | 6010C | 400455 |
| LCSSRM 480-400455/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 400455 |
| 480-131427-4 MS | SB-18 (1.5-2.5) | Total/NA | Solid | 6010C | 400455 |
| 480-131427-4 MSD | SB-18 (1.5-2.5) | Total/NA | Solid | 6010C | 400455 |

### Prep Batch: 400925

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-4 | SB-18 (1.5-2.5) | Total/NA | Solid | 7471B | |
| 480-131427-5 | SB-22 (6"-2.5') | Total/NA | Solid | 7471B | |
| 480-131427-7 | SB-12 (2"-6") | Total/NA | Solid | 7471B | |
| MB 480-400925/1-A | Method Blank | Total/NA | Solid | 7471B | |
| LCSSRM 480-400925/2-A ^10 | Lab Control Sample | Total/NA | Solid | 7471B | |

### Analysis Batch: 400946

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-4 | SB-18 (1.5-2.5) | Total/NA | Solid | 7471B | 400925 |
| 480-131427-5 | SB-22 (6"-2.5') | Total/NA | Solid | 7471B | 400925 |
| 480-131427-7 | SB-12 (2"-6") | Total/NA | Solid | 7471B | 400925 |
| MB 480-400925/1-A | Method Blank | Total/NA | Solid | 7471B | 400925 |
| LCSSRM 480-400925/2-A ^10 | Lab Control Sample | Total/NA | Solid | 7471B | 400925 |

## General Chemistry

### Analysis Batch: 400298

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-4 | SB-18 (1.5-2.5) | Total/NA | Solid | Moisture | |
| 480-131427-5 | SB-22 (6"-2.5') | Total/NA | Solid | Moisture | |
| 480-131427-6 | SS-1 | Total/NA | Solid | Moisture | |
| 480-131427-7 | SB-12 (2"-6") | Total/NA | Solid | Moisture | |

### Analysis Batch: 400659

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131427-1 | SB-11 (7-8') | Total/NA | Solid | Moisture | |
| 480-131427-2 | SB-12 (8-9') | Total/NA | Solid | Moisture | |
| 480-131427-3 | SB-13 (6-8') | Total/NA | Solid | Moisture | |

**Client Sample ID: SB-11 (7-8')** — **Lab Sample ID: 480-131427-1**
**Date Collected: 02/16/18 09:55** — **Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400659 | 02/20/18 11:22 | CDC | TAL BUF |

**Client Sample ID: SB-11 (7-8')** — **Lab Sample ID: 480-131427-1**
**Date Collected: 02/16/18 09:55** — **Matrix: Solid**
**Date Received: 02/16/18 15:15** — **Percent Solids: 83.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_H | | | 400648 | 02/20/18 10:43 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 4 | 400787 | 02/21/18 15:54 | AMM | TAL BUF |

**Client Sample ID: SB-12 (8-9')** — **Lab Sample ID: 480-131427-2**
**Date Collected: 02/16/18 10:30** — **Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400659 | 02/20/18 11:22 | CDC | TAL BUF |

**Client Sample ID: SB-12 (8-9')** — **Lab Sample ID: 480-131427-2**
**Date Collected: 02/16/18 10:30** — **Matrix: Solid**
**Date Received: 02/16/18 15:15** — **Percent Solids: 86.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_H | | | 400648 | 02/20/18 10:43 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 400993 | 02/22/18 14:36 | AMM | TAL BUF |

**Client Sample ID: SB-13 (6-8')** — **Lab Sample ID: 480-131427-3**
**Date Collected: 02/16/18 11:00** — **Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400659 | 02/20/18 11:22 | CDC | TAL BUF |

**Client Sample ID: SB-13 (6-8')** — **Lab Sample ID: 480-131427-3**
**Date Collected: 02/16/18 11:00** — **Matrix: Solid**
**Date Received: 02/16/18 15:15** — **Percent Solids: 86.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_H | | | 400648 | 02/20/18 10:43 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 400993 | 02/22/18 14:59 | AMM | TAL BUF |

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

## Client Sample ID: SB-18 (1.5-2.5)

**Lab Sample ID: 480-131427-4**

**Date Collected: 02/16/18 12:00**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400298 | 02/17/18 07:32 | CSW | TAL BUF |

## Client Sample ID: SB-18 (1.5-2.5)

**Lab Sample ID: 480-131427-4**

**Date Collected: 02/16/18 12:00**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**
**Percent Solids: 74.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 400401 | 02/19/18 08:50 | NMC | TAL BUF |
| Total/NA | Analysis | 8270D | | 1 | 400911 | 02/21/18 20:53 | PJQ | TAL BUF |
| Total/NA | Prep | 3050B | | | 400455 | 02/19/18 15:11 | SMF | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 400892 | 02/21/18 06:49 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 400925 | 02/21/18 15:20 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 400946 | 02/21/18 17:08 | BMB | TAL BUF |

## Client Sample ID: SB-22 (6"-2.5')

**Lab Sample ID: 480-131427-5**

**Date Collected: 02/16/18 12:45**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400298 | 02/17/18 07:32 | CSW | TAL BUF |

## Client Sample ID: SB-22 (6"-2.5')

**Lab Sample ID: 480-131427-5**

**Date Collected: 02/16/18 12:45**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**
**Percent Solids: 92.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 400401 | 02/19/18 08:50 | NMC | TAL BUF |
| Total/NA | Analysis | 8270D | | 10 | 400911 | 02/21/18 21:20 | PJQ | TAL BUF |
| Total/NA | Prep | 3050B | | | 400455 | 02/19/18 15:11 | SMF | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 400892 | 02/21/18 07:18 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 400925 | 02/21/18 15:20 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 400946 | 02/21/18 17:10 | BMB | TAL BUF |

## Client Sample ID: SS-1

**Lab Sample ID: 480-131427-6**

**Date Collected: 02/16/18 13:50**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400298 | 02/17/18 07:32 | CSW | TAL BUF |

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

## Client Sample ID: SS-1

**Lab Sample ID: 480-131427-6**

**Date Collected: 02/16/18 13:50**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**
**Percent Solids: 74.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 400401 | 02/19/18 08:50 | NMC | TAL BUF |
| Total/NA | Analysis | 8270D | | 20 | 400911 | 02/21/18 21:48 | PJQ | TAL BUF |

## Client Sample ID: SB-12 (2"-6")

**Lab Sample ID: 480-131427-7**

**Date Collected: 02/16/18 10:25**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400298 | 02/17/18 07:32 | CSW | TAL BUF |

## Client Sample ID: SB-12 (2"-6")

**Lab Sample ID: 480-131427-7**

**Date Collected: 02/16/18 10:25**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**
**Percent Solids: 84.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 400401 | 02/19/18 08:50 | NMC | TAL BUF |
| Total/NA | Analysis | 8270D | | 5 | 400911 | 02/21/18 22:16 | PJQ | TAL BUF |
| Total/NA | Prep | 3050B | | | 400455 | 02/19/18 15:11 | SMF | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 400892 | 02/21/18 07:22 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 400925 | 02/21/18 15:20 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 400946 | 02/21/18 17:11 | BMB | TAL BUF |

## Client Sample ID: MW-2

**Lab Sample ID: 480-131427-8**

**Date Collected: 02/16/18 13:00**
**Matrix: Water**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 2 | 400512 | 02/20/18 04:12 | RJF | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 10 | 400616 | 02/20/18 17:04 | AMM | TAL BUF |

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-18 * |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL BUF |
| 6010C | Metals (ICP) | SW846 | TAL BUF |
| 7471B | Mercury (CVAA) | SW846 | TAL BUF |
| Moisture | Fine Moisture | EPA | TAL BUF |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131427-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-131427-1 | SB-11 (7-8') | Solid | 02/16/18 09:55 | 02/16/18 15:15 |
| 480-131427-2 | SB-12 (8-9') | Solid | 02/16/18 10:30 | 02/16/18 15:15 |
| 480-131427-3 | SB-13 (6-8') | Solid | 02/16/18 11:00 | 02/16/18 15:15 |
| 480-131427-4 | SB-18 (1.5-2.5) | Solid | 02/16/18 12:00 | 02/16/18 15:15 |
| 480-131427-5 | SB-22 (6"-2.5') | Solid | 02/16/18 12:45 | 02/16/18 15:15 |
| 480-131427-6 | SS-1 | Solid | 02/16/18 13:50 | 02/16/18 15:15 |
| 480-131427-7 | SB-12 (2"-6") | Solid | 02/16/18 10:25 | 02/16/18 15:15 |
| 480-131427-8 | MW-2 | Water | 02/16/18 13:00 | 02/16/18 15:15 |

**TestAmerica Buffalo**
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: Nick Surace | Lab PM: Fischer, Brian J | COC No: 480-109315-25440.1 |
|---|---|---|---|
| Client Contact: Nate Munley | Phone: 716-713-3437 | E-Mail: brian.fischer@testamericainc.com | Page: Page 1 of 2 |
| Company: Turnkey Environmental Restoration, LLC | | Analysis Req 480-131427 COC | Job #: |
| Address: 2558 Hamburg Turnpike Suite 300 | Due Date Requested: | | Preservation Codes: |
| City: Lackawanna | TAT Requested (days): | | A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify) |
| State, Zip: NY, 14218 | | | |
| Phone: | PO #: Purchase Order not required B02Y-018-001 | | Other: |
| Email: nmunley@benchmarkturnkey.com | WO #: | | |
| Project Name: Benchmark - 1200 Jefferson St | Project #: 48017568 | | |
| Site: 1200 Jefferson | SSOW#: | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - (MOD) TCL list OLM04.2 + CP-51(Stars) | 8260C - (MOD) TCL list OLM04.2 + Stars + HCPS1 | 6010C, 7471B | 8270D - PAH Semivolatiles | | | | | | | | | | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation Code: | | | | | | | N | A | N | N | | | | | | | | | | | | | | | | |
| SB-11 (7-5') | 2/16/18 | 9:55 | G | Solid | | | X | | | | | | | | | | | | | | | | | | | |
| SB-12 (9-9') | | 10:30 | G | Solid | | | X | | | | | | | | | | | | | | | | | | | |
| SB-13 (6-5') | | 11:00 | G | Solid | | | X | | | | | | | | | | | | | | | | | | | |
| SB-18 (1.5-2.5') | | 12:00 | G | Solid | | | | | X | X | | | | | | | | | | | | | | | | |
| SB-22 (6"-2.5') | | 12:45 | G | Solid | | | | | X | X | | | | | | | | | | | | | | | | |
| SS-1 | | 13:50 | G | Solid | | | | | | X | | | | | | | | | | | | | | | | |
| SB-12 (2"-6") | | 10:25 | G | Solid | | | | | X | X | | | | | | | | | | | | | | | | |
| | | | | Solid | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Solid | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Solid | | | | | | | | | | | | | | | | | | | | | | |
| MW-2 | | 13:00 | | Water | | | X | X | | | | | | | | | | | | | | | | | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Separate report by chain

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| | 2/16/18 15:15 | | | 2/16/18 1515 | TA |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

8.8 #1

# Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-131427-1

**Login Number: 131427**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Williams, Christopher S**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | TER |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-131428-1
Client Project/Site: Benchmark - 1200 Jefferson St

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Nate Munley

Joseph V. Giacomazza

*Authorized for release by:*
*2/23/2018 10:18:38 AM*
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| * | LCS or LCSD is outside acceptance limits. |
| vs | Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| B | Compound was found in the blank and sample. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate is outside control limits |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 480-131428-1

### Laboratory: TestAmerica Buffalo

**Narrative**

**Job Narrative**
**480-131428-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 2/16/2018 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.8º C.

**GC/MS VOA**
Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-1 (480-131428-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-400550 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK) and 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-400550 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW-1 (480-131428-1).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-400550 recovered outside control limits for the following analyte(s): Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-400435 and analytical batch 480-400384 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: FD-1 (480-131428-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
Method(s) 8270D: The following sample was diluted due to color and appearance: FD-1 (480-131428-4). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following samples required a dilution due to the nature of the sample matrix: FD-1 (480-131428-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
Method(s) 3550C: The following samples: FD-1 (480-131428-4) was decanted prior to preparation.

Method(s) 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume: FD-1 (480-131428-4). The reporting limits (RLs) are elevated proportionately.

## Job ID: 480-131428-1 (Continued)

### Laboratory: TestAmerica Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

## Client Sample ID: MW-1 — Lab Sample ID: 480-131428-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 3.0 | | 2.0 | 0.68 | ug/L | 2 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 2.7 | | 2.0 | 1.6 | ug/L | 2 | | 8260C | Total/NA |
| Methylene Chloride | 3.1 | | 2.0 | 0.88 | ug/L | 2 | | 8260C | Total/NA |
| Tetrachloroethene | 30 | | 2.0 | 0.72 | ug/L | 2 | | 8260C | Total/NA |

## Client Sample ID: SB-1 (4"-1') — Lab Sample ID: 480-131428-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.50 | J vs | 6.0 | 0.37 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene | 220 | vs F1 | 6.0 | 0.81 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-5 (0-2') — Lab Sample ID: 480-131428-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | 29 | J | 210 | 22 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 6.0 | | 2.3 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 127 | | 0.57 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 23.7 | | 0.57 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 205 | | 1.1 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.26 | | 0.025 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: FD-1 — Lab Sample ID: 480-131428-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 97000 | | 1800 | 500 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| 1,3,5-Trimethylbenzene | 30000 | | 1800 | 540 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| 4-Isopropyltoluene | 14000 | | 1800 | 600 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| Ethylbenzene | 1100 | J | 1800 | 520 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| Isopropylbenzene | 1900 | | 1800 | 270 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| m,p-Xylene | 6400 | | 3600 | 990 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| Methylene Chloride | 850 | J B | 1800 | 350 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| n-Butylbenzene | 34000 | | 1800 | 520 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| N-Propylbenzene | 4600 | | 1800 | 470 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| o-Xylene | 4400 | | 1800 | 230 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| sec-Butylbenzene | 11000 | | 1800 | 660 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| Toluene | 2500 | | 1800 | 480 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| Trichloroethene | 540 | J | 1800 | 500 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| Xylenes, Total | 11000 | | 3600 | 990 | ug/Kg | 10 | ☼ | 8260C | Total/NA |
| Fluoranthene | 11000 | J | 52000 | 5500 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Naphthalene | 38000 | J | 52000 | 6700 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Phenanthrene | 8800 | J | 52000 | 7600 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Arsenic | 3.5 | | 3.2 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 436 | | 0.80 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 228 | | 0.80 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 36.9 | | 1.6 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.046 | | 0.031 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

**Client Sample ID: MW-1**
**Date Collected: 02/15/18 16:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-1**
**Matrix: Water**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.42 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.0 | 0.62 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,1,2-Trichloroethane | ND | | 2.0 | 0.46 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,1-Dichloroethane | ND | | 2.0 | 0.76 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,1-Dichloroethene | ND | | 2.0 | 0.58 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 0.82 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.78 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,2-Dibromoethane | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,2-Dichlorobenzene | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,2-Dichloroethane | ND | | 2.0 | 0.42 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,2-Dichloropropane | ND | | 2.0 | 1.4 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,3-Dichlorobenzene | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 13:19 | 2 |
| 1,4-Dichlorobenzene | ND | | 2.0 | 1.7 | ug/L | | | 02/20/18 13:19 | 2 |
| 2-Butanone (MEK) | ND | | 20 | 2.6 | ug/L | | | 02/20/18 13:19 | 2 |
| 2-Hexanone | ND | | 10 | 2.5 | ug/L | | | 02/20/18 13:19 | 2 |
| 4-Isopropyltoluene | ND | | 2.0 | 0.62 | ug/L | | | 02/20/18 13:19 | 2 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 10 | 4.2 | ug/L | | | 02/20/18 13:19 | 2 |
| Acetone | ND | | 20 | 6.0 | ug/L | | | 02/20/18 13:19 | 2 |
| Benzene | ND | | 2.0 | 0.82 | ug/L | | | 02/20/18 13:19 | 2 |
| Bromodichloromethane | ND | | 2.0 | 0.78 | ug/L | | | 02/20/18 13:19 | 2 |
| Bromoform | ND | | 2.0 | 0.52 | ug/L | | | 02/20/18 13:19 | 2 |
| Bromomethane | ND | | 2.0 | 1.4 | ug/L | | | 02/20/18 13:19 | 2 |
| Carbon disulfide | ND | | 2.0 | 0.38 | ug/L | | | 02/20/18 13:19 | 2 |
| Carbon tetrachloride | ND | | 2.0 | 0.54 | ug/L | | | 02/20/18 13:19 | 2 |
| Chlorobenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 13:19 | 2 |
| Chloroethane | ND | | 2.0 | 0.64 | ug/L | | | 02/20/18 13:19 | 2 |
| **Chloroform** | **3.0** | | 2.0 | 0.68 | ug/L | | | 02/20/18 13:19 | 2 |
| Chloromethane | ND | | 2.0 | 0.70 | ug/L | | | 02/20/18 13:19 | 2 |
| **cis-1,2-Dichloroethene** | **2.7** | | 2.0 | 1.6 | ug/L | | | 02/20/18 13:19 | 2 |
| cis-1,3-Dichloropropene | ND | | 2.0 | 0.72 | ug/L | | | 02/20/18 13:19 | 2 |
| Cyclohexane | ND | | 2.0 | 0.36 | ug/L | | | 02/20/18 13:19 | 2 |
| Dibromochloromethane | ND | | 2.0 | 0.64 | ug/L | | | 02/20/18 13:19 | 2 |
| Dichlorodifluoromethane | ND | | 2.0 | 1.4 | ug/L | | | 02/20/18 13:19 | 2 |
| Ethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 13:19 | 2 |
| Isopropylbenzene | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 13:19 | 2 |
| m,p-Xylene | ND | | 4.0 | 1.3 | ug/L | | | 02/20/18 13:19 | 2 |
| Methyl acetate | ND | * | 5.0 | 2.6 | ug/L | | | 02/20/18 13:19 | 2 |
| Methyl tert-butyl ether | ND | | 2.0 | 0.32 | ug/L | | | 02/20/18 13:19 | 2 |
| Methylcyclohexane | ND | | 2.0 | 0.32 | ug/L | | | 02/20/18 13:19 | 2 |
| **Methylene Chloride** | **3.1** | | 2.0 | 0.88 | ug/L | | | 02/20/18 13:19 | 2 |
| n-Butylbenzene | ND | | 2.0 | 1.3 | ug/L | | | 02/20/18 13:19 | 2 |
| N-Propylbenzene | ND | | 2.0 | 1.4 | ug/L | | | 02/20/18 13:19 | 2 |
| o-Xylene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 13:19 | 2 |
| sec-Butylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 13:19 | 2 |
| Styrene | ND | | 2.0 | 1.5 | ug/L | | | 02/20/18 13:19 | 2 |
| tert-Butylbenzene | ND | | 2.0 | 1.6 | ug/L | | | 02/20/18 13:19 | 2 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

**Client Sample ID: MW-1**
**Date Collected: 02/15/18 16:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-1**
**Matrix: Water**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **30** | | 2.0 | 0.72 | ug/L | | | 02/20/18 13:19 | 2 |
| Toluene | ND | | 2.0 | 1.0 | ug/L | | | 02/20/18 13:19 | 2 |
| trans-1,2-Dichloroethene | ND | | 2.0 | 1.8 | ug/L | | | 02/20/18 13:19 | 2 |
| trans-1,3-Dichloropropene | ND | | 2.0 | 0.74 | ug/L | | | 02/20/18 13:19 | 2 |
| Trichloroethene | ND | | 2.0 | 0.92 | ug/L | | | 02/20/18 13:19 | 2 |
| Trichlorofluoromethane | ND | | 2.0 | 1.8 | ug/L | | | 02/20/18 13:19 | 2 |
| Vinyl chloride | ND | | 2.0 | 1.8 | ug/L | | | 02/20/18 13:19 | 2 |
| Xylenes, Total | ND | | 4.0 | 1.3 | ug/L | | | 02/20/18 13:19 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *77 - 120* | | *02/20/18 13:19* | *2* |
| *4-Bromofluorobenzene (Surr)* | *110* | | *73 - 120* | | *02/20/18 13:19* | *2* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* | | *02/20/18 13:19* | *2* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

**Client Sample ID: SB-1 (4"-1')**
**Date Collected: 02/15/18 08:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-2**
**Matrix: Solid**
**Percent Solids: 82.3**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | vs | 6.0 | 0.44 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | vs F1 | 6.0 | 0.97 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | vs | 6.0 | 1.4 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,1,2-Trichloroethane | ND | vs F1 | 6.0 | 0.78 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,1-Dichloroethane | ND | vs | 6.0 | 0.73 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,1-Dichloroethene | ND | vs | 6.0 | 0.73 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,2,4-Trichlorobenzene | ND | vs F1 | 6.0 | 0.37 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,2,4-Trimethylbenzene | ND | vs | 6.0 | 1.2 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | vs F1 | 6.0 | 3.0 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,2-Dibromoethane | ND | vs F1 | 6.0 | 0.77 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,2-Dichlorobenzene | ND | vs F1 | 6.0 | 0.47 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,2-Dichloroethane | ND | vs F1 | 6.0 | 0.30 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,2-Dichloropropane | ND | vs | 6.0 | 3.0 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,3,5-Trimethylbenzene | ND | vs | 6.0 | 0.39 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,3-Dichlorobenzene | ND | vs F1 | 6.0 | 0.31 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 1,4-Dichlorobenzene | ND | vs F1 | 6.0 | 0.84 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 2-Butanone (MEK) | ND | vs F1 | 30 | 2.2 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 2-Hexanone | ND | vs F1 | 30 | 3.0 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 4-Isopropyltoluene | ND | vs | 6.0 | 0.48 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | vs F1 | 30 | 2.0 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Acetone | ND | vs F1 | 30 | 5.1 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Benzene | ND | vs | 6.0 | 0.29 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Bromodichloromethane | ND | vs F1 | 6.0 | 0.80 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Bromoform | ND | vs F1 | 6.0 | 3.0 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Bromomethane | ND | vs | 6.0 | 0.54 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Carbon disulfide | ND | vs | 6.0 | 3.0 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Carbon tetrachloride | ND | vs | 6.0 | 0.58 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Chlorobenzene | ND | vs F1 | 6.0 | 0.79 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Chloroethane | ND | vs | 6.0 | 1.4 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| **Chloroform** | **0.50** | **J vs** | 6.0 | 0.37 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Chloromethane | ND | vs | 6.0 | 0.36 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| cis-1,2-Dichloroethene | ND | vs | 6.0 | 0.77 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| cis-1,3-Dichloropropene | ND | vs F1 | 6.0 | 0.86 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Cyclohexane | ND | vs | 6.0 | 0.84 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Dibromochloromethane | ND | vs F1 | 6.0 | 0.77 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Dichlorodifluoromethane | ND | vs | 6.0 | 0.50 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Ethylbenzene | ND | vs F1 | 6.0 | 0.41 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Isopropylbenzene | ND | vs | 6.0 | 0.91 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| m,p-Xylene | ND | vs | 12 | 1.0 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Methyl acetate | ND | vs | 30 | 3.6 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Methyl tert-butyl ether | ND | vs | 6.0 | 0.59 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Methylcyclohexane | ND | vs | 6.0 | 0.91 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Methylene Chloride | ND | vs | 6.0 | 2.8 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| n-Butylbenzene | ND | vs F1 | 6.0 | 0.52 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| N-Propylbenzene | ND | vs | 6.0 | 0.48 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| o-Xylene | ND | vs | 6.0 | 0.78 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| sec-Butylbenzene | ND | vs F1 | 6.0 | 0.52 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Styrene | ND | vs F1 | 6.0 | 0.30 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| tert-Butylbenzene | ND | vs | 6.0 | 0.62 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

**Client Sample ID: SB-1 (4"-1')**
**Date Collected: 02/15/18 08:00**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-2**
**Matrix: Solid**
**Percent Solids: 82.3**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **220** | **vs F1** | 6.0 | 0.81 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Toluene | ND | vs F1 | 6.0 | 0.45 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| trans-1,2-Dichloroethene | ND | vs | 6.0 | 0.62 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| trans-1,3-Dichloropropene | ND | vs F1 | 6.0 | 2.6 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Trichloroethene | ND | vs | 6.0 | 1.3 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Trichlorofluoromethane | ND | vs | 6.0 | 0.57 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Vinyl chloride | ND | vs | 6.0 | 0.73 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |
| Xylenes, Total | ND | vs F1 | 12 | 1.0 | ug/Kg | ☼ | 02/19/18 10:44 | 02/19/18 12:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *64 - 126* | *02/19/18 10:44* | *02/19/18 12:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *72 - 126* | *02/19/18 10:44* | *02/19/18 12:54* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 140* | *02/19/18 10:44* | *02/19/18 12:54* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *71 - 125* | *02/19/18 10:44* | *02/19/18 12:54* | *1* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

**Client Sample ID: SB-5 (0-2')**
**Date Collected: 02/15/18 13:50**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-3**
**Matrix: Solid**
**Percent Solids: 80.2**

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 210 | 31 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Acenaphthylene | ND | | 210 | 27 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Anthracene | ND | | 210 | 52 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Benzo[a]anthracene | ND | | 210 | 21 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Benzo[a]pyrene | ND | | 210 | 31 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Benzo[b]fluoranthene | ND | | 210 | 34 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Benzo[g,h,i]perylene | ND | | 210 | 22 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Benzo[k]fluoranthene | ND | | 210 | 27 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Chrysene | ND | | 210 | 47 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Dibenz(a,h)anthracene | ND | | 210 | 37 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| **Fluoranthene** | **29** | **J** | 210 | 22 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Fluorene | ND | | 210 | 25 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 210 | 26 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Naphthalene | ND | | 210 | 27 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Phenanthrene | ND | | 210 | 31 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |
| Pyrene | ND | | 210 | 25 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 22:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *60 - 120* | *02/19/18 08:50* | *02/21/18 22:43* | *1* |
| *Nitrobenzene-d5 (Surr)* | *75* | | *53 - 120* | *02/19/18 08:50* | *02/21/18 22:43* | *1* |
| *p-Terphenyl-d14 (Surr)* | *96* | | *65 - 121* | *02/19/18 08:50* | *02/21/18 22:43* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.0** | | 2.3 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:26 | 1 |
| **Barium** | **127** | | 0.57 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:26 | 1 |
| Cadmium | ND | | 0.23 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:26 | 1 |
| **Chromium** | **23.7** | | 0.57 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:26 | 1 |
| **Lead** | **205** | | 1.1 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:26 | 1 |
| Selenium | ND | | 4.6 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:26 | 1 |
| Silver | ND | | 0.69 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:26 | 1 |

### Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.26** | | 0.025 | | mg/Kg | ☼ | 02/21/18 15:20 | 02/21/18 17:12 | 1 |

**Client Sample ID: FD-1**
**Date Collected: 02/15/18 14:30**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-4**
**Matrix: Solid**
**Percent Solids: 64.2**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1800 | 490 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | 1800 | 290 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1800 | 890 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,1,2-Trichloroethane | ND | | 1800 | 370 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,1-Dichloroethane | ND | | 1800 | 550 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,1-Dichloroethene | ND | | 1800 | 620 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,2,4-Trichlorobenzene | ND | | 1800 | 670 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **1,2,4-Trimethylbenzene** | **97000** | | 1800 | 500 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1800 | 890 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,2-Dibromoethane | ND | | 1800 | 310 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,2-Dichlorobenzene | ND | | 1800 | 450 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,2-Dichloroethane | ND | | 1800 | 730 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,2-Dichloropropane | ND | | 1800 | 290 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **1,3,5-Trimethylbenzene** | **30000** | | 1800 | 540 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,3-Dichlorobenzene | ND | | 1800 | 480 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 1,4-Dichlorobenzene | ND | | 1800 | 250 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 2-Butanone (MEK) | ND | | 8900 | 5300 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 2-Hexanone | ND | | 8900 | 3700 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **4-Isopropyltoluene** | **14000** | | 1800 | 600 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 8900 | 570 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Acetone | ND | | 8900 | 7300 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Benzene | ND | | 1800 | 340 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Bromodichloromethane | ND | | 1800 | 360 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Bromoform | ND | | 1800 | 890 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Bromomethane | ND | | 1800 | 390 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Carbon disulfide | ND | | 1800 | 810 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Carbon tetrachloride | ND | | 1800 | 450 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Chlorobenzene | ND | | 1800 | 240 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Chloroethane | ND | | 1800 | 370 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Chloroform | ND | | 1800 | 1200 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Chloromethane | ND | | 1800 | 420 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| cis-1,2-Dichloroethene | ND | | 1800 | 490 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| cis-1,3-Dichloropropene | ND | | 1800 | 430 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Cyclohexane | ND | | 1800 | 400 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Dibromochloromethane | ND | | 1800 | 860 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Dichlorodifluoromethane | ND | | 1800 | 780 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **Ethylbenzene** | **1100** | **J** | 1800 | 520 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **Isopropylbenzene** | **1900** | | 1800 | 270 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **m,p-Xylene** | **6400** | | 3600 | 990 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Methyl acetate | ND | | 8900 | 850 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Methyl tert-butyl ether | ND | | 1800 | 670 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Methylcyclohexane | ND | | 1800 | 830 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **Methylene Chloride** | **850** | **J B** | 1800 | 350 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **n-Butylbenzene** | **34000** | | 1800 | 520 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **N-Propylbenzene** | **4600** | | 1800 | 470 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **o-Xylene** | **4400** | | 1800 | 230 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **sec-Butylbenzene** | **11000** | | 1800 | 660 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Styrene | ND | | 1800 | 430 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| tert-Butylbenzene | ND | | 1800 | 500 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

**Client Sample ID: FD-1**
**Date Collected: 02/15/18 14:30**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-4**
**Matrix: Solid**
**Percent Solids: 64.2**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | | 1800 | 240 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **Toluene** | **2500** | | 1800 | 480 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| trans-1,2-Dichloroethene | ND | | 1800 | 420 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| trans-1,3-Dichloropropene | ND | | 1800 | 180 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **Trichloroethene** | **540** | **J** | 1800 | 500 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Trichlorofluoromethane | ND | | 1800 | 840 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| Vinyl chloride | ND | | 1800 | 600 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |
| **Xylenes, Total** | **11000** | | 3600 | 990 | ug/Kg | ☼ | 02/20/18 10:43 | 02/22/18 15:22 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *53 - 146* | *02/20/18 10:43* | *02/22/18 15:22* | *10* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *49 - 148* | *02/20/18 10:43* | *02/22/18 15:22* | *10* |
| *Dibromofluoromethane (Surr)* | *95* | | *60 - 140* | *02/20/18 10:43* | *02/22/18 15:22* | *10* |
| *Toluene-d8 (Surr)* | *100* | | *50 - 149* | *02/20/18 10:43* | *02/22/18 15:22* | *10* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 52000 | 7600 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Acenaphthylene | ND | | 52000 | 6700 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Anthracene | ND | | 52000 | 13000 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Benzo[a]anthracene | ND | | 52000 | 5200 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Benzo[a]pyrene | ND | | 52000 | 7600 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Benzo[b]fluoranthene | ND | | 52000 | 8200 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Benzo[g,h,i]perylene | ND | | 52000 | 5500 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Benzo[k]fluoranthene | ND | | 52000 | 6700 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Chrysene | ND | | 52000 | 12000 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Dibenz(a,h)anthracene | ND | | 52000 | 9100 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| **Fluoranthene** | **11000** | **J** | 52000 | 5500 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Fluorene | ND | | 52000 | 6100 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Indeno[1,2,3-cd]pyrene | ND | | 52000 | 6400 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| **Naphthalene** | **38000** | **J** | 52000 | 6700 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| **Phenanthrene** | **8800** | **J** | 52000 | 7600 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |
| Pyrene | ND | | 52000 | 6100 | ug/Kg | ☼ | 02/19/18 08:50 | 02/21/18 23:11 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *0* | *X* | *60 - 120* | *02/19/18 08:50* | *02/21/18 23:11* | *20* |
| *Nitrobenzene-d5 (Surr)* | *0* | *X* | *53 - 120* | *02/19/18 08:50* | *02/21/18 23:11* | *20* |
| *p-Terphenyl-d14 (Surr)* | *0* | *X* | *65 - 121* | *02/19/18 08:50* | *02/21/18 23:11* | *20* |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.5** | | 3.2 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:30 | 1 |
| **Barium** | **436** | | 0.80 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:30 | 1 |
| Cadmium | ND | | 0.32 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:30 | 1 |
| **Chromium** | **228** | | 0.80 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:30 | 1 |
| **Lead** | **36.9** | | 1.6 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:30 | 1 |
| Selenium | ND | | 6.4 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:30 | 1 |
| Silver | ND | | 0.95 | | mg/Kg | ☼ | 02/19/18 15:11 | 02/21/18 07:30 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

**Client Sample ID: FD-1**
**Date Collected: 02/15/18 14:30**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-4**
**Matrix: Solid**
**Percent Solids: 64.2**

**Method: 7471B - Mercury (CVAA)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.046 | | 0.031 | | mg/Kg | ☼ | 02/21/18 15:20 | 02/21/18 17:14 | 1 |

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (64-126) | (72-126) | (60-140) | (71-125) |
| 480-131428-2 | SB-1 (4"-1') | 100 | 90 | 103 | 96 |
| 480-131428-2 MS | SB-1 (4"-1') | 92 | 92 | 100 | 96 |
| 480-131428-2 MSD | SB-1 (4"-1') | 90 | 92 | 100 | 97 |
| LCS 480-400435/1-A | Lab Control Sample | 99 | 96 | 103 | 95 |
| MB 480-400435/2-A | Method Blank | 102 | 95 | 102 | 92 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (53-146) | (49-148) | (60-140) | (50-149) |
| 480-131428-4 | FD-1 | 102 | 97 | 95 | 100 |
| LCS 480-400648/1-A | Lab Control Sample | 100 | 100 | 105 | 105 |
| MB 480-400648/2-A | Method Blank | 103 | 95 | 95 | 102 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | DCA | BFB | TOL |
| Lab Sample ID | Client Sample ID | (77-120) | (73-120) | (80-120) |
| 480-131428-1 | MW-1 | 90 | 110 | 106 |
| LCS 480-400550/5 | Lab Control Sample | 93 | 107 | 104 |
| MB 480-400550/7 | Method Blank | 91 | 105 | 101 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | FBP | NBZ | TPHd14 |
| Lab Sample ID | Client Sample ID | (60-120) | (53-120) | (65-121) |
| 480-131428-3 | SB-5 (0-2') | 85 | 75 | 96 |

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | FBP | NBZ | TPHd14 | | | | | | |
| Lab Sample ID | Client Sample ID | (60-120) | (53-120) | (65-121) | | | | | | |
| 480-131428-4 | FD-1 | 0 X | 0 X | 0 X | | | | | | |
| LCS 480-400401/2-A | Lab Control Sample | 87 | 76 | 100 | | | | | | |
| MB 480-400401/1-A | Method Blank | 85 | 83 | 97 | | | | | | |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-400435/2-A**
**Matrix: Solid**
**Analysis Batch: 400384**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400435**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.36 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.81 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.65 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.61 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.30 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.96 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 0.64 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.39 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.25 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.32 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.26 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.70 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 2-Butanone (MEK) | ND | | 25 | 1.8 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 2-Hexanone | ND | | 25 | 2.5 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | 0.40 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | 1.6 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Acetone | ND | | 25 | 4.2 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.67 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Bromomethane | ND | | 5.0 | 0.45 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Carbon disulfide | ND | | 5.0 | 2.5 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.48 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Chloroethane | ND | | 5.0 | 1.1 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Chloroform | ND | | 5.0 | 0.31 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Chloromethane | ND | | 5.0 | 0.30 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.64 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.72 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Cyclohexane | ND | | 5.0 | 0.70 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.64 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.41 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.35 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.75 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| m,p-Xylene | ND | | 10 | 0.84 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Methyl acetate | ND | | 25 | 3.0 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.49 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.76 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Methylene Chloride | ND | | 5.0 | 2.3 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.44 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| N-Propylbenzene | ND | | 5.0 | 0.40 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| o-Xylene | ND | | 5.0 | 0.65 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.44 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Styrene | ND | | 5.0 | 0.25 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-400435/2-A**
**Matrix: Solid**
**Analysis Batch: 400384**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400435**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| tert-Butylbenzene | ND | | 5.0 | 0.52 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.67 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Toluene | ND | | 5.0 | 0.38 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.52 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 2.2 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Trichloroethene | ND | | 5.0 | 1.1 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.47 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.61 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |
| Xylenes, Total | ND | | 10 | 0.84 | ug/Kg | | 02/19/18 10:44 | 02/19/18 12:14 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *64 - 126* | *02/19/18 10:44* | *02/19/18 12:14* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *72 - 126* | *02/19/18 10:44* | *02/19/18 12:14* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 140* | *02/19/18 10:44* | *02/19/18 12:14* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *71 - 125* | *02/19/18 10:44* | *02/19/18 12:14* | *1* |

**Lab Sample ID: LCS 480-400435/1-A**
**Matrix: Solid**
**Analysis Batch: 400384**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400435**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 50.0 | 49.1 | | ug/Kg | | 98 | 77 - 121 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 42.8 | | ug/Kg | | 86 | 80 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 49.7 | | ug/Kg | | 99 | 60 - 140 |
| 1,1,2-Trichloroethane | 50.0 | 43.1 | | ug/Kg | | 86 | 78 - 122 |
| 1,1-Dichloroethane | 50.0 | 47.3 | | ug/Kg | | 95 | 73 - 126 |
| 1,1-Dichloroethene | 50.0 | 47.4 | | ug/Kg | | 95 | 59 - 125 |
| 1,2,4-Trichlorobenzene | 50.0 | 42.2 | | ug/Kg | | 84 | 64 - 120 |
| 1,2,4-Trimethylbenzene | 50.0 | 44.1 | | ug/Kg | | 88 | 74 - 120 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 42.2 | | ug/Kg | | 84 | 63 - 124 |
| 1,2-Dibromoethane | 50.0 | 44.3 | | ug/Kg | | 89 | 78 - 120 |
| 1,2-Dichlorobenzene | 50.0 | 42.5 | | ug/Kg | | 85 | 75 - 120 |
| 1,2-Dichloroethane | 50.0 | 47.6 | | ug/Kg | | 95 | 77 - 122 |
| 1,2-Dichloropropane | 50.0 | 44.0 | | ug/Kg | | 88 | 75 - 124 |
| 1,3,5-Trimethylbenzene | 50.0 | 44.8 | | ug/Kg | | 90 | 74 - 120 |
| 1,3-Dichlorobenzene | 50.0 | 42.5 | | ug/Kg | | 85 | 74 - 120 |
| 1,4-Dichlorobenzene | 50.0 | 42.6 | | ug/Kg | | 85 | 73 - 120 |
| 2-Butanone (MEK) | 250 | 223 | | ug/Kg | | 89 | 70 - 134 |
| 2-Hexanone | 250 | 218 | | ug/Kg | | 87 | 59 - 130 |
| 4-Isopropyltoluene | 50.0 | 44.9 | | ug/Kg | | 90 | 74 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 214 | | ug/Kg | | 86 | 65 - 133 |
| Acetone | 250 | 220 | | ug/Kg | | 88 | 61 - 137 |
| Benzene | 50.0 | 45.8 | | ug/Kg | | 92 | 79 - 127 |
| Bromodichloromethane | 50.0 | 47.1 | | ug/Kg | | 94 | 80 - 122 |
| Bromoform | 50.0 | 44.4 | | ug/Kg | | 89 | 68 - 126 |
| Bromomethane | 50.0 | 46.6 | | ug/Kg | | 93 | 37 - 149 |
| Carbon disulfide | 50.0 | 46.0 | | ug/Kg | | 92 | 64 - 131 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-400435/1-A**
**Matrix: Solid**
**Analysis Batch: 400384**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400435**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 50.0 | 50.2 | | ug/Kg | | 100 | 75 - 135 |
| Chlorobenzene | 50.0 | 43.9 | | ug/Kg | | 88 | 76 - 124 |
| Chloroethane | 50.0 | 44.4 | | ug/Kg | | 89 | 69 - 135 |
| Chloroform | 50.0 | 47.2 | | ug/Kg | | 94 | 80 - 120 |
| Chloromethane | 50.0 | 45.1 | | ug/Kg | | 90 | 63 - 127 |
| cis-1,2-Dichloroethene | 50.0 | 46.0 | | ug/Kg | | 92 | 81 - 120 |
| cis-1,3-Dichloropropene | 50.0 | 44.0 | | ug/Kg | | 88 | 80 - 120 |
| Cyclohexane | 50.0 | 46.5 | | ug/Kg | | 93 | 65 - 120 |
| Dibromochloromethane | 50.0 | 46.4 | | ug/Kg | | 93 | 76 - 125 |
| Dichlorodifluoromethane | 50.0 | 56.7 | | ug/Kg | | 113 | 57 - 142 |
| Ethylbenzene | 50.0 | 44.0 | | ug/Kg | | 88 | 80 - 120 |
| Isopropylbenzene | 50.0 | 44.3 | | ug/Kg | | 89 | 72 - 120 |
| m,p-Xylene | 50.0 | 42.4 | | ug/Kg | | 85 | 70 - 130 |
| Methyl acetate | 100 | 87.4 | | ug/Kg | | 87 | 55 - 136 |
| Methyl tert-butyl ether | 50.0 | 44.2 | | ug/Kg | | 88 | 63 - 125 |
| Methylcyclohexane | 50.0 | 46.2 | | ug/Kg | | 92 | 60 - 140 |
| Methylene Chloride | 50.0 | 43.7 | | ug/Kg | | 87 | 61 - 127 |
| n-Butylbenzene | 50.0 | 44.9 | | ug/Kg | | 90 | 70 - 120 |
| N-Propylbenzene | 50.0 | 44.6 | | ug/Kg | | 89 | 70 - 130 |
| o-Xylene | 50.0 | 42.1 | | ug/Kg | | 84 | 70 - 130 |
| sec-Butylbenzene | 50.0 | 44.8 | | ug/Kg | | 90 | 74 - 120 |
| Styrene | 50.0 | 41.5 | | ug/Kg | | 83 | 80 - 120 |
| tert-Butylbenzene | 50.0 | 44.9 | | ug/Kg | | 90 | 73 - 120 |
| Tetrachloroethene | 50.0 | 44.9 | | ug/Kg | | 90 | 74 - 122 |
| Toluene | 50.0 | 43.0 | | ug/Kg | | 86 | 74 - 128 |
| trans-1,2-Dichloroethene | 50.0 | 47.2 | | ug/Kg | | 94 | 78 - 126 |
| trans-1,3-Dichloropropene | 50.0 | 43.8 | | ug/Kg | | 88 | 73 - 123 |
| Trichloroethene | 50.0 | 47.4 | | ug/Kg | | 95 | 77 - 129 |
| Trichlorofluoromethane | 50.0 | 51.9 | | ug/Kg | | 104 | 65 - 146 |
| Vinyl chloride | 50.0 | 44.5 | | ug/Kg | | 89 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *64 - 126* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *72 - 126* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *95* | | *71 - 125* |

**Lab Sample ID: 480-131428-2 MS**
**Matrix: Solid**
**Analysis Batch: 400384**

**Client Sample ID: SB-1 (4"-1')**
**Prep Type: Total/NA**
**Prep Batch: 400435**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | vs | 60.0 | 52.6 | vs | ug/Kg | ☼ | 88 | 77 - 121 |
| 1,1,2,2-Tetrachloroethane | ND | vs F1 | 60.0 | 41.9 | vs F1 | ug/Kg | ☼ | 70 | 80 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | vs | 60.0 | 53.6 | vs | ug/Kg | ☼ | 89 | 60 - 140 |
| 1,1,2-Trichloroethane | ND | vs F1 | 60.0 | 43.2 | vs F1 | ug/Kg | ☼ | 72 | 78 - 122 |
| 1,1-Dichloroethane | ND | vs | 60.0 | 52.6 | vs | ug/Kg | ☼ | 88 | 73 - 126 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-131428-2 MS** | **Client Sample ID: SB-1 (4"-1')**
**Matrix: Solid** | **Prep Type: Total/NA**
**Analysis Batch: 400384** | **Prep Batch: 400435**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | vs | 60.0 | 52.9 | vs | ug/Kg | ☼ | 88 | 59 - 125 |
| 1,2,4-Trichlorobenzene | ND | vs F1 | 60.0 | 28.7 | vs F1 | ug/Kg | ☼ | 48 | 64 - 120 |
| 1,2,4-Trimethylbenzene | ND | vs | 60.0 | 49.5 | vs | ug/Kg | ☼ | 82 | 74 - 120 |
| 1,2-Dibromo-3-Chloropropane | ND | vs F1 | 60.0 | 33.3 | vs F1 | ug/Kg | ☼ | 55 | 63 - 124 |
| 1,2-Dibromoethane | ND | vs F1 | 60.0 | 42.4 | vs F1 | ug/Kg | ☼ | 71 | 78 - 120 |
| 1,2-Dichlorobenzene | ND | vs F1 | 60.0 | 40.7 | vs F1 | ug/Kg | ☼ | 68 | 75 - 120 |
| 1,2-Dichloroethane | ND | vs F1 | 60.0 | 47.5 | vs | ug/Kg | ☼ | 79 | 77 - 122 |
| 1,2-Dichloropropane | ND | vs | 60.0 | 48.6 | vs | ug/Kg | ☼ | 81 | 75 - 124 |
| 1,3,5-Trimethylbenzene | ND | vs | 60.0 | 51.1 | vs | ug/Kg | ☼ | 85 | 74 - 120 |
| 1,3-Dichlorobenzene | ND | vs F1 | 60.0 | 43.3 | vs F1 | ug/Kg | ☼ | 72 | 74 - 120 |
| 1,4-Dichlorobenzene | ND | vs F1 | 60.0 | 43.3 | vs F1 | ug/Kg | ☼ | 72 | 73 - 120 |
| 2-Butanone (MEK) | ND | vs F1 | 300 | 176 | vs F1 | ug/Kg | ☼ | 59 | 70 - 134 |
| 2-Hexanone | ND | vs F1 | 300 | 179 | vs | ug/Kg | ☼ | 60 | 59 - 130 |
| 4-Isopropyltoluene | ND | vs | 60.0 | 49.6 | vs | ug/Kg | ☼ | 83 | 74 - 120 |
| 4-Methyl-2-pentanone (MIBK) | ND | vs F1 | 300 | 181 | vs F1 | ug/Kg | ☼ | 60 | 65 - 133 |
| Acetone | ND | vs F1 | 300 | 170 | vs F1 | ug/Kg | ☼ | 57 | 61 - 137 |
| Benzene | ND | vs | 60.0 | 51.8 | vs | ug/Kg | ☼ | 86 | 79 - 127 |
| Bromodichloromethane | ND | vs F1 | 60.0 | 49.2 | vs | ug/Kg | ☼ | 82 | 80 - 122 |
| Bromoform | ND | vs F1 | 60.0 | 35.9 | vs F1 | ug/Kg | ☼ | 60 | 68 - 126 |
| Bromomethane | ND | vs | 60.0 | 54.4 | vs | ug/Kg | ☼ | 91 | 37 - 149 |
| Carbon disulfide | ND | vs | 60.0 | 49.7 | vs | ug/Kg | ☼ | 83 | 64 - 131 |
| Carbon tetrachloride | ND | vs | 60.0 | 50.6 | vs | ug/Kg | ☼ | 84 | 75 - 135 |
| Chlorobenzene | ND | vs F1 | 60.0 | 47.0 | vs | ug/Kg | ☼ | 78 | 76 - 124 |
| Chloroethane | ND | vs | 60.0 | 54.6 | vs | ug/Kg | ☼ | 91 | 69 - 135 |
| Chloroform | 0.50 | J vs | 60.0 | 53.9 | vs | ug/Kg | ☼ | 89 | 80 - 120 |
| Chloromethane | ND | vs | 60.0 | 49.0 | vs | ug/Kg | ☼ | 82 | 63 - 127 |
| cis-1,2-Dichloroethene | ND | vs | 60.0 | 51.8 | vs | ug/Kg | ☼ | 86 | 80 - 120 |
| cis-1,3-Dichloropropene | ND | vs F1 | 60.0 | 46.8 | vs F1 | ug/Kg | ☼ | 78 | 80 - 120 |
| Cyclohexane | ND | vs | 60.0 | 48.9 | vs | ug/Kg | ☼ | 81 | 65 - 120 |
| Dibromochloromethane | ND | vs F1 | 60.0 | 45.7 | vs | ug/Kg | ☼ | 76 | 76 - 125 |
| Dichlorodifluoromethane | ND | vs | 60.0 | 62.7 | vs | ug/Kg | ☼ | 105 | 57 - 142 |
| Ethylbenzene | ND | vs F1 | 60.0 | 48.5 | vs | ug/Kg | ☼ | 81 | 80 - 120 |
| Isopropylbenzene | ND | vs | 60.0 | 52.6 | vs | ug/Kg | ☼ | 88 | 72 - 120 |
| m,p-Xylene | ND | vs | 60.0 | 46.9 | vs | ug/Kg | ☼ | 78 | 70 - 130 |
| Methyl acetate | ND | vs | 120 | 72.3 | vs | ug/Kg | ☼ | 60 | 55 - 136 |
| Methyl tert-butyl ether | ND | vs | 60.0 | 45.1 | vs | ug/Kg | ☼ | 75 | 63 - 125 |
| Methylcyclohexane | ND | vs | 60.0 | 48.0 | vs | ug/Kg | ☼ | 80 | 60 - 140 |
| Methylene Chloride | ND | vs | 60.0 | 49.5 | vs | ug/Kg | ☼ | 82 | 61 - 127 |
| n-Butylbenzene | ND | vs F1 | 60.0 | 46.1 | vs | ug/Kg | ☼ | 77 | 70 - 120 |
| N-Propylbenzene | ND | vs | 60.0 | 51.7 | vs | ug/Kg | ☼ | 86 | 70 - 130 |
| o-Xylene | ND | vs | 60.0 | 46.2 | vs | ug/Kg | ☼ | 77 | 70 - 130 |
| sec-Butylbenzene | ND | vs F1 | 60.0 | 49.9 | vs | ug/Kg | ☼ | 83 | 74 - 120 |
| Styrene | ND | vs F1 | 60.0 | 43.9 | vs F1 | ug/Kg | ☼ | 73 | 80 - 120 |
| tert-Butylbenzene | ND | vs | 60.0 | 51.1 | vs | ug/Kg | ☼ | 85 | 73 - 120 |
| Tetrachloroethene | 220 | vs F1 | 60.0 | 523 | E vs F1 | ug/Kg | ☼ | 503 | 74 - 122 |
| Toluene | ND | vs F1 | 60.0 | 48.1 | vs | ug/Kg | ☼ | 80 | 74 - 128 |
| trans-1,2-Dichloroethene | ND | vs | 60.0 | 53.4 | vs | ug/Kg | ☼ | 89 | 78 - 126 |
| trans-1,3-Dichloropropene | ND | vs F1 | 60.0 | 42.8 | vs F1 | ug/Kg | ☼ | 71 | 73 - 123 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-131428-2 MS** — **Client Sample ID: SB-1 (4"-1')**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 400384** — **Prep Batch: 400435**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | ND | vs | 60.0 | 53.1 | vs | ug/Kg | ☼ | 88 | 77 - 129 |
| Trichlorofluoromethane | ND | vs | 60.0 | 57.7 | vs | ug/Kg | ☼ | 96 | 65 - 146 |
| Vinyl chloride | ND | vs | 60.0 | 50.5 | vs | ug/Kg | ☼ | 84 | 61 - 133 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *64 - 126* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *72 - 126* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *96* | | *71 - 125* |

**Lab Sample ID: 480-131428-2 MSD** — **Client Sample ID: SB-1 (4"-1')**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 400384** — **Prep Batch: 400435**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | vs | 60.5 | 46.5 | vs | ug/Kg | ☼ | 77 | 77 - 121 | 12 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | vs F1 | 60.5 | 41.0 | vs F1 | ug/Kg | ☼ | 68 | 80 - 120 | 2 | 30 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | vs | 60.5 | 45.8 | vs | ug/Kg | ☼ | 76 | 60 - 140 | 16 | 30 |
| 1,1,2-Trichloroethane | ND | vs F1 | 60.5 | 42.6 | vs F1 | ug/Kg | ☼ | 70 | 78 - 122 | 1 | 30 |
| 1,1-Dichloroethane | ND | vs | 60.5 | 48.9 | vs | ug/Kg | ☼ | 81 | 73 - 126 | 7 | 30 |
| 1,1-Dichloroethene | ND | vs | 60.5 | 46.6 | vs | ug/Kg | ☼ | 77 | 59 - 125 | 13 | 30 |
| 1,2,4-Trichlorobenzene | ND | vs F1 | 60.5 | 26.8 | vs F1 | ug/Kg | ☼ | 44 | 64 - 120 | 7 | 30 |
| 1,2,4-Trimethylbenzene | ND | vs | 60.5 | 46.0 | vs | ug/Kg | ☼ | 76 | 74 - 120 | 7 | 30 |
| 1,2-Dibromo-3-Chloropropane | ND | vs F1 | 60.5 | 32.7 | vs F1 | ug/Kg | ☼ | 54 | 63 - 124 | 2 | 30 |
| 1,2-Dibromoethane | ND | vs F1 | 60.5 | 41.5 | vs F1 | ug/Kg | ☼ | 69 | 78 - 120 | 2 | 30 |
| 1,2-Dichlorobenzene | ND | vs F1 | 60.5 | 37.8 | vs F1 | ug/Kg | ☼ | 63 | 75 - 120 | 7 | 30 |
| 1,2-Dichloroethane | ND | vs F1 | 60.5 | 45.6 | vs F1 | ug/Kg | ☼ | 75 | 77 - 122 | 4 | 30 |
| 1,2-Dichloropropane | ND | vs | 60.5 | 46.8 | vs | ug/Kg | ☼ | 77 | 75 - 124 | 4 | 30 |
| 1,3,5-Trimethylbenzene | ND | vs | 60.5 | 46.3 | vs | ug/Kg | ☼ | 77 | 74 - 120 | 10 | 30 |
| 1,3-Dichlorobenzene | ND | vs F1 | 60.5 | 39.7 | vs F1 | ug/Kg | ☼ | 66 | 74 - 120 | 9 | 30 |
| 1,4-Dichlorobenzene | ND | vs F1 | 60.5 | 40.3 | vs F1 | ug/Kg | ☼ | 67 | 73 - 120 | 7 | 30 |
| 2-Butanone (MEK) | ND | vs F1 | 303 | 174 | vs F1 | ug/Kg | ☼ | 58 | 70 - 134 | 1 | 30 |
| 2-Hexanone | ND | vs F1 | 303 | 174 | vs F1 | ug/Kg | ☼ | 58 | 59 - 130 | 3 | 30 |
| 4-Isopropyltoluene | ND | vs | 60.5 | 44.8 | vs | ug/Kg | ☼ | 74 | 74 - 120 | 10 | 30 |
| 4-Methyl-2-pentanone (MIBK) | ND | vs F1 | 303 | 180 | vs F1 | ug/Kg | ☼ | 59 | 65 - 133 | 1 | 30 |
| Acetone | ND | vs F1 | 303 | 176 | vs F1 | ug/Kg | ☼ | 58 | 61 - 137 | 3 | 30 |
| Benzene | ND | vs | 60.5 | 47.8 | vs | ug/Kg | ☼ | 79 | 79 - 127 | 8 | 30 |
| Bromodichloromethane | ND | vs F1 | 60.5 | 47.6 | vs F1 | ug/Kg | ☼ | 79 | 80 - 122 | 3 | 30 |
| Bromoform | ND | vs F1 | 60.5 | 35.1 | vs F1 | ug/Kg | ☼ | 58 | 68 - 126 | 2 | 30 |
| Bromomethane | ND | vs | 60.5 | 51.4 | vs | ug/Kg | ☼ | 85 | 37 - 149 | 6 | 30 |
| Carbon disulfide | ND | vs | 60.5 | 44.4 | vs | ug/Kg | ☼ | 73 | 64 - 131 | 11 | 30 |
| Carbon tetrachloride | ND | vs | 60.5 | 45.2 | vs | ug/Kg | ☼ | 75 | 75 - 135 | 11 | 30 |
| Chlorobenzene | ND | vs F1 | 60.5 | 44.3 | vs F1 | ug/Kg | ☼ | 73 | 76 - 124 | 6 | 30 |
| Chloroethane | ND | vs | 60.5 | 49.0 | vs | ug/Kg | ☼ | 81 | 69 - 135 | 11 | 30 |
| Chloroform | 0.50 | J vs | 60.5 | 50.2 | vs | ug/Kg | ☼ | 82 | 80 - 120 | 7 | 30 |
| Chloromethane | ND | vs | 60.5 | 46.0 | vs | ug/Kg | ☼ | 76 | 63 - 127 | 6 | 30 |
| cis-1,2-Dichloroethene | ND | vs | 60.5 | 48.9 | vs | ug/Kg | ☼ | 81 | 80 - 120 | 6 | 30 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-131428-2 MSD**
**Matrix: Solid**
**Analysis Batch: 400384**

**Client Sample ID: SB-1 (4"-1')**
**Prep Type: Total/NA**
**Prep Batch: 400435**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | vs F1 | 60.5 | 45.0 | vs F1 | ug/Kg | ☼ | 74 | 80 - 120 | 4 | 30 |
| Cyclohexane | ND | vs | 60.5 | 42.1 | vs | ug/Kg | ☼ | 70 | 65 - 120 | 15 | 30 |
| Dibromochloromethane | ND | vs F1 | 60.5 | 44.6 | vs F1 | ug/Kg | ☼ | 74 | 76 - 125 | 2 | 30 |
| Dichlorodifluoromethane | ND | vs | 60.5 | 55.1 | vs | ug/Kg | ☼ | 91 | 57 - 142 | 13 | 30 |
| Ethylbenzene | ND | vs F1 | 60.5 | 44.1 | vs F1 | ug/Kg | ☼ | 73 | 80 - 120 | 9 | 30 |
| Isopropylbenzene | ND | vs | 60.5 | 47.4 | vs | ug/Kg | ☼ | 78 | 72 - 120 | 10 | 30 |
| m,p-Xylene | ND | vs | 60.5 | 42.8 | vs | ug/Kg | ☼ | 71 | 70 - 130 | 9 | 30 |
| Methyl acetate | ND | vs | 121 | 70.7 | vs | ug/Kg | ☼ | 58 | 55 - 136 | 2 | 30 |
| Methyl tert-butyl ether | ND | vs | 60.5 | 44.0 | vs | ug/Kg | ☼ | 73 | 63 - 125 | 2 | 30 |
| Methylcyclohexane | ND | vs | 60.5 | 40.9 | vs | ug/Kg | ☼ | 68 | 60 - 140 | 16 | 30 |
| Methylene Chloride | ND | vs | 60.5 | 46.7 | vs | ug/Kg | ☼ | 77 | 61 - 127 | 6 | 30 |
| n-Butylbenzene | ND | vs F1 | 60.5 | 40.5 | vs F1 | ug/Kg | ☼ | 67 | 70 - 120 | 13 | 30 |
| N-Propylbenzene | ND | vs | 60.5 | 46.0 | vs | ug/Kg | ☼ | 76 | 70 - 130 | 12 | 30 |
| o-Xylene | ND | vs | 60.5 | 43.0 | vs | ug/Kg | ☼ | 71 | 70 - 130 | 7 | 30 |
| sec-Butylbenzene | ND | vs F1 | 60.5 | 44.5 | vs F1 | ug/Kg | ☼ | 73 | 74 - 120 | 12 | 30 |
| Styrene | ND | vs F1 | 60.5 | 41.5 | vs F1 | ug/Kg | ☼ | 69 | 80 - 120 | 6 | 30 |
| tert-Butylbenzene | ND | vs | 60.5 | 46.6 | vs | ug/Kg | ☼ | 77 | 73 - 120 | 9 | 30 |
| Tetrachloroethene | 220 | vs F1 | 60.5 | 404 | E vs F1 | ug/Kg | ☼ | 303 | 74 - 122 | 26 | 30 |
| Toluene | ND | vs F1 | 60.5 | 44.2 | vs F1 | ug/Kg | ☼ | 73 | 74 - 128 | 8 | 30 |
| trans-1,2-Dichloroethene | ND | vs | 60.5 | 47.8 | vs | ug/Kg | ☼ | 79 | 78 - 126 | 11 | 30 |
| trans-1,3-Dichloropropene | ND | vs F1 | 60.5 | 42.4 | vs F1 | ug/Kg | ☼ | 70 | 73 - 123 | 1 | 30 |
| Trichloroethene | ND | vs | 60.5 | 47.0 | vs | ug/Kg | ☼ | 78 | 77 - 129 | 12 | 30 |
| Trichlorofluoromethane | ND | vs | 60.5 | 49.9 | vs | ug/Kg | ☼ | 83 | 65 - 146 | 14 | 30 |
| Vinyl chloride | ND | vs | 60.5 | 45.6 | vs | ug/Kg | ☼ | 75 | 61 - 133 | 10 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *64 - 126* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *72 - 126* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *97* | | *71 - 125* |

**Lab Sample ID: MB 480-400550/7**
**Matrix: Water**
**Analysis Batch: 400550**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 02/20/18 11:20 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-400550/7**
**Matrix: Water**
**Analysis Batch: 400550**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 02/20/18 11:20 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 02/20/18 11:20 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 02/20/18 11:20 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 02/20/18 11:20 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.31 | ug/L | | | 02/20/18 11:20 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 02/20/18 11:20 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 02/20/18 11:20 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 02/20/18 11:20 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 02/20/18 11:20 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 02/20/18 11:20 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 02/20/18 11:20 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 02/20/18 11:20 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 02/20/18 11:20 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 11:20 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 02/20/18 11:20 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 02/20/18 11:20 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 02/20/18 11:20 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 02/20/18 11:20 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 02/20/18 11:20 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 02/20/18 11:20 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 02/20/18 11:20 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 02/20/18 11:20 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 02/20/18 11:20 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 02/20/18 11:20 | 1 |
| m,p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 02/20/18 11:20 | 1 |
| Methyl acetate | ND | | 2.5 | 1.3 | ug/L | | | 02/20/18 11:20 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 02/20/18 11:20 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 02/20/18 11:20 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 02/20/18 11:20 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.64 | ug/L | | | 02/20/18 11:20 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.69 | ug/L | | | 02/20/18 11:20 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 02/20/18 11:20 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 02/20/18 11:20 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 02/20/18 11:20 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.81 | ug/L | | | 02/20/18 11:20 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 02/20/18 11:20 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 02/20/18 11:20 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 02/20/18 11:20 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 02/20/18 11:20 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 02/20/18 11:20 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 02/20/18 11:20 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 02/20/18 11:20 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 02/20/18 11:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *77 - 120* | | *02/20/18 11:20* | *1* |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-400550/7**
**Matrix: Water**
**Analysis Batch: 400550**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 105 | | 73 - 120 | | 02/20/18 11:20 | 1 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | 02/20/18 11:20 | 1 |

**Lab Sample ID: LCS 480-400550/5**
**Matrix: Water**
**Analysis Batch: 400550**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 27.5 | | ug/L | | 110 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 22.9 | | ug/L | | 91 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 31.1 | | ug/L | | 124 | 61 - 148 |
| 1,1,2-Trichloroethane | 25.0 | 23.9 | | ug/L | | 96 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 26.6 | | ug/L | | 106 | 77 - 120 |
| 1,1-Dichloroethene | 25.0 | 26.8 | | ug/L | | 107 | 66 - 127 |
| 1,2,4-Trichlorobenzene | 25.0 | 29.4 | | ug/L | | 118 | 79 - 122 |
| 1,2,4-Trimethylbenzene | 25.0 | 28.2 | | ug/L | | 113 | 76 - 121 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 22.5 | | ug/L | | 90 | 56 - 134 |
| 1,2-Dibromoethane | 25.0 | 23.7 | | ug/L | | 95 | 77 - 120 |
| 1,2-Dichlorobenzene | 25.0 | 27.8 | | ug/L | | 111 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 22.4 | | ug/L | | 90 | 75 - 120 |
| 1,2-Dichloropropane | 25.0 | 26.4 | | ug/L | | 106 | 76 - 120 |
| 1,3,5-Trimethylbenzene | 25.0 | 27.7 | | ug/L | | 111 | 77 - 121 |
| 1,3-Dichlorobenzene | 25.0 | 27.6 | | ug/L | | 110 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 27.3 | | ug/L | | 109 | 80 - 120 |
| 2-Butanone (MEK) | 125 | 88.8 | | ug/L | | 71 | 57 - 140 |
| 2-Hexanone | 125 | 94.5 | | ug/L | | 76 | 65 - 127 |
| 4-Isopropyltoluene | 25.0 | 29.2 | | ug/L | | 117 | 73 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 103 | | ug/L | | 82 | 71 - 125 |
| Acetone | 125 | 87.8 | | ug/L | | 70 | 56 - 142 |
| Benzene | 25.0 | 26.3 | | ug/L | | 105 | 71 - 124 |
| Bromodichloromethane | 25.0 | 26.4 | | ug/L | | 106 | 80 - 122 |
| Bromoform | 25.0 | 24.7 | | ug/L | | 99 | 61 - 132 |
| Bromomethane | 25.0 | 23.7 | | ug/L | | 95 | 55 - 144 |
| Carbon disulfide | 25.0 | 28.1 | | ug/L | | 113 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 28.1 | | ug/L | | 112 | 72 - 134 |
| Chlorobenzene | 25.0 | 26.5 | | ug/L | | 106 | 80 - 120 |
| Chloroethane | 25.0 | 24.7 | | ug/L | | 99 | 69 - 136 |
| Chloroform | 25.0 | 25.6 | | ug/L | | 103 | 73 - 127 |
| Chloromethane | 25.0 | 25.4 | | ug/L | | 102 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 26.5 | | ug/L | | 106 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 26.2 | | ug/L | | 105 | 74 - 124 |
| Cyclohexane | 25.0 | 30.1 | | ug/L | | 121 | 59 - 135 |
| Dibromochloromethane | 25.0 | 25.9 | | ug/L | | 103 | 75 - 125 |
| Dichlorodifluoromethane | 25.0 | 30.6 | | ug/L | | 122 | 59 - 135 |
| Ethylbenzene | 25.0 | 26.5 | | ug/L | | 106 | 77 - 123 |
| Isopropylbenzene | 25.0 | 28.0 | | ug/L | | 112 | 77 - 122 |
| m,p-Xylene | 25.0 | 26.9 | | ug/L | | 107 | 76 - 122 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-400550/5**
**Matrix: Water**
**Analysis Batch: 400550**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl acetate | 50.0 | 36.4 | * | ug/L | | 73 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 23.7 | | ug/L | | 95 | 77 - 120 |
| Methylcyclohexane | 25.0 | 31.1 | | ug/L | | 124 | 68 - 134 |
| Methylene Chloride | 25.0 | 25.9 | | ug/L | | 104 | 75 - 124 |
| n-Butylbenzene | 25.0 | 28.9 | | ug/L | | 116 | 71 - 128 |
| N-Propylbenzene | 25.0 | 28.0 | | ug/L | | 112 | 75 - 127 |
| o-Xylene | 25.0 | 27.6 | | ug/L | | 110 | 76 - 122 |
| sec-Butylbenzene | 25.0 | 28.1 | | ug/L | | 112 | 74 - 127 |
| Styrene | 25.0 | 27.1 | | ug/L | | 108 | 80 - 120 |
| tert-Butylbenzene | 25.0 | 28.4 | | ug/L | | 114 | 75 - 123 |
| Tetrachloroethene | 25.0 | 27.0 | | ug/L | | 108 | 74 - 122 |
| Toluene | 25.0 | 25.5 | | ug/L | | 102 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 27.2 | | ug/L | | 109 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 26.2 | | ug/L | | 105 | 80 - 120 |
| Trichloroethene | 25.0 | 27.2 | | ug/L | | 109 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 27.3 | | ug/L | | 109 | 62 - 150 |
| Vinyl chloride | 25.0 | 25.8 | | ug/L | | 103 | 65 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *77 - 120* |
| *4-Bromofluorobenzene (Surr)* | *107* | | *73 - 120* |
| *Toluene-d8 (Surr)* | *104* | | *80 - 120* |

**Lab Sample ID: MB 480-400648/2-A**
**Matrix: Solid**
**Analysis Batch: 400787**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400648**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 100 | 16 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 100 | 50 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 100 | 21 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1-Dichloroethane | ND | | 100 | 31 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,1-Dichloroethene | ND | | 100 | 35 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 100 | 38 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 100 | 50 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dibromoethane | ND | | 100 | 18 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 100 | 26 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dichloroethane | ND | | 100 | 41 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,2-Dichloropropane | ND | | 100 | 16 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 100 | 30 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 100 | 27 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 100 | 14 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 2-Butanone (MEK) | ND | | 500 | 300 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 2-Hexanone | ND | | 500 | 210 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 4-Isopropyltoluene | ND | | 100 | 34 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | 32 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-400648/2-A**
**Matrix: Solid**
**Analysis Batch: 400787**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400648**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 500 | 410 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Benzene | ND | | 100 | 19 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Bromodichloromethane | ND | | 100 | 20 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Bromoform | ND | | 100 | 50 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Bromomethane | ND | | 100 | 22 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Carbon disulfide | ND | | 100 | 46 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Carbon tetrachloride | ND | | 100 | 26 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Chlorobenzene | ND | | 100 | 13 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Chloroethane | ND | | 100 | 21 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Chloroform | ND | | 100 | 69 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Chloromethane | ND | | 100 | 24 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 100 | 24 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Cyclohexane | ND | | 100 | 22 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Dibromochloromethane | ND | | 100 | 48 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Dichlorodifluoromethane | ND | | 100 | 44 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Ethylbenzene | ND | | 100 | 29 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Isopropylbenzene | ND | | 100 | 15 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| m,p-Xylene | ND | | 200 | 55 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Methyl acetate | ND | | 500 | 48 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Methyl tert-butyl ether | ND | | 100 | 38 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Methylcyclohexane | ND | | 100 | 47 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Methylene Chloride | 88.0 | J | 100 | 20 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| n-Butylbenzene | ND | | 100 | 29 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| N-Propylbenzene | ND | | 100 | 26 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| o-Xylene | ND | | 100 | 13 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| sec-Butylbenzene | ND | | 100 | 37 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Styrene | ND | | 100 | 24 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| tert-Butylbenzene | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Tetrachloroethene | ND | | 100 | 13 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Toluene | ND | | 100 | 27 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 100 | 24 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 100 | 9.8 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Trichloroethene | ND | | 100 | 28 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Trichlorofluoromethane | ND | | 100 | 47 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Vinyl chloride | ND | | 100 | 34 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |
| Xylenes, Total | ND | | 200 | 55 | ug/Kg | | 02/20/18 10:43 | 02/21/18 11:01 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *53 - 146* | *02/20/18 10:43* | *02/21/18 11:01* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *49 - 148* | *02/20/18 10:43* | *02/21/18 11:01* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *60 - 140* | *02/20/18 10:43* | *02/21/18 11:01* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *50 - 149* | *02/20/18 10:43* | *02/21/18 11:01* | *1* |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-400648/1-A**
**Matrix: Solid**
**Analysis Batch: 400787**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400648**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2500 | 2390 | | ug/Kg | | 96 | 68 - 130 |
| 1,1,2,2-Tetrachloroethane | 2500 | 2260 | | ug/Kg | | 90 | 73 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 | 2560 | | ug/Kg | | 102 | 10 - 179 |
| 1,1,2-Trichloroethane | 2500 | 2550 | | ug/Kg | | 102 | 80 - 120 |
| 1,1-Dichloroethane | 2500 | 2660 | | ug/Kg | | 106 | 78 - 121 |
| 1,1-Dichloroethene | 2500 | 2540 | | ug/Kg | | 101 | 48 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2510 | | ug/Kg | | 100 | 70 - 140 |
| 1,2,4-Trimethylbenzene | 2500 | 2490 | | ug/Kg | | 100 | 77 - 127 |
| 1,2-Dibromo-3-Chloropropane | 2500 | 1680 | | ug/Kg | | 67 | 56 - 122 |
| 1,2-Dibromoethane | 2500 | 2410 | | ug/Kg | | 96 | 80 - 120 |
| 1,2-Dichlorobenzene | 2500 | 2530 | | ug/Kg | | 101 | 78 - 125 |
| 1,2-Dichloroethane | 2500 | 2540 | | ug/Kg | | 101 | 74 - 127 |
| 1,2-Dichloropropane | 2500 | 2590 | | ug/Kg | | 104 | 80 - 120 |
| 1,3,5-Trimethylbenzene | 2500 | 2510 | | ug/Kg | | 100 | 79 - 120 |
| 1,3-Dichlorobenzene | 2500 | 2550 | | ug/Kg | | 102 | 80 - 120 |
| 1,4-Dichlorobenzene | 2500 | 2510 | | ug/Kg | | 100 | 80 - 120 |
| 2-Butanone (MEK) | 12500 | 11200 | | ug/Kg | | 89 | 54 - 149 |
| 2-Hexanone | 12500 | 10600 | | ug/Kg | | 85 | 59 - 127 |
| 4-Isopropyltoluene | 2500 | 2620 | | ug/Kg | | 105 | 80 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 12500 | 11100 | | ug/Kg | | 88 | 74 - 120 |
| Acetone | 12500 | 8220 | | ug/Kg | | 66 | 47 - 141 |
| Benzene | 2500 | 2670 | | ug/Kg | | 107 | 77 - 125 |
| Bromodichloromethane | 2500 | 2280 | | ug/Kg | | 91 | 71 - 121 |
| Bromoform | 2500 | 2050 | | ug/Kg | | 82 | 48 - 125 |
| Bromomethane | 2500 | 2720 | | ug/Kg | | 109 | 39 - 149 |
| Carbon disulfide | 2500 | 2170 | | ug/Kg | | 87 | 40 - 136 |
| Carbon tetrachloride | 2500 | 2410 | | ug/Kg | | 97 | 54 - 135 |
| Chlorobenzene | 2500 | 2630 | | ug/Kg | | 105 | 76 - 126 |
| Chloroethane | 2500 | 2850 | | ug/Kg | | 114 | 23 - 150 |
| Chloroform | 2500 | 2610 | | ug/Kg | | 105 | 78 - 120 |
| Chloromethane | 2500 | 2530 | | ug/Kg | | 101 | 61 - 124 |
| cis-1,2-Dichloroethene | 2500 | 2600 | | ug/Kg | | 104 | 79 - 124 |
| cis-1,3-Dichloropropene | 2500 | 2440 | | ug/Kg | | 97 | 75 - 121 |
| Cyclohexane | 2500 | 2620 | | ug/Kg | | 105 | 49 - 129 |
| Dibromochloromethane | 2500 | 2300 | | ug/Kg | | 92 | 64 - 120 |
| Dichlorodifluoromethane | 2500 | 2950 | | ug/Kg | | 118 | 10 - 150 |
| Ethylbenzene | 2500 | 2590 | | ug/Kg | | 104 | 78 - 124 |
| Isopropylbenzene | 2500 | 2510 | | ug/Kg | | 100 | 76 - 120 |
| m,p-Xylene | 2500 | 2520 | | ug/Kg | | 101 | 77 - 125 |
| Methyl acetate | 5000 | 5070 | | ug/Kg | | 101 | 71 - 123 |
| Methyl tert-butyl ether | 2500 | 2390 | | ug/Kg | | 96 | 67 - 137 |
| Methylcyclohexane | 2500 | 2870 | | ug/Kg | | 115 | 50 - 130 |
| Methylene Chloride | 2500 | 2490 | | ug/Kg | | 100 | 75 - 118 |
| n-Butylbenzene | 2500 | 2600 | | ug/Kg | | 104 | 80 - 120 |
| N-Propylbenzene | 2500 | 2600 | | ug/Kg | | 104 | 76 - 120 |
| o-Xylene | 2500 | 2590 | | ug/Kg | | 103 | 80 - 124 |
| sec-Butylbenzene | 2500 | 2650 | | ug/Kg | | 106 | 79 - 120 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-400648/1-A**
**Matrix: Solid**
**Analysis Batch: 400787**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400648**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Styrene | 2500 | 2550 | | ug/Kg | | 102 | 80 - 120 |
| tert-Butylbenzene | 2500 | 2540 | | ug/Kg | | 102 | 78 - 120 |
| Tetrachloroethene | 2500 | 2740 | | ug/Kg | | 110 | 73 - 133 |
| Toluene | 2500 | 2580 | | ug/Kg | | 103 | 75 - 124 |
| trans-1,2-Dichloroethene | 2500 | 2550 | | ug/Kg | | 102 | 74 - 129 |
| trans-1,3-Dichloropropene | 2500 | 2350 | | ug/Kg | | 94 | 73 - 120 |
| Trichloroethene | 2500 | 2550 | | ug/Kg | | 102 | 75 - 131 |
| Trichlorofluoromethane | 2500 | 3220 | | ug/Kg | | 129 | 29 - 158 |
| Vinyl chloride | 2500 | 2850 | | ug/Kg | | 114 | 59 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *53 - 146* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *49 - 148* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *105* | | *50 - 149* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-400401/1-A**
**Matrix: Solid**
**Analysis Batch: 400911**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400401**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 160 | 24 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Acenaphthylene | ND | | 160 | 21 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Anthracene | ND | | 160 | 41 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[a]anthracene | ND | | 160 | 16 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[a]pyrene | ND | | 160 | 24 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[b]fluoranthene | ND | | 160 | 26 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[g,h,i]perylene | ND | | 160 | 17 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Benzo[k]fluoranthene | ND | | 160 | 21 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Chrysene | ND | | 160 | 37 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Dibenz(a,h)anthracene | ND | | 160 | 29 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Fluoranthene | ND | | 160 | 17 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Fluorene | ND | | 160 | 19 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 160 | 20 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Naphthalene | ND | | 160 | 21 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Phenanthrene | ND | | 160 | 24 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |
| Pyrene | ND | | 160 | 19 | ug/Kg | | 02/19/18 08:50 | 02/21/18 16:48 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *60 - 120* | *02/19/18 08:50* | *02/21/18 16:48* | *1* |
| *Nitrobenzene-d5 (Surr)* | *83* | | *53 - 120* | *02/19/18 08:50* | *02/21/18 16:48* | *1* |
| *p-Terphenyl-d14 (Surr)* | *97* | | *65 - 121* | *02/19/18 08:50* | *02/21/18 16:48* | *1* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-400401/2-A**
**Matrix: Solid**
**Analysis Batch: 400911**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400401**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1650 | 1560 | | ug/Kg | | 95 | 62 - 120 |
| Acenaphthylene | 1650 | 1460 | | ug/Kg | | 88 | 58 - 121 |
| Anthracene | 1650 | 1500 | | ug/Kg | | 91 | 62 - 120 |
| Benzo[a]anthracene | 1650 | 1640 | | ug/Kg | | 100 | 65 - 120 |
| Benzo[a]pyrene | 1650 | 1600 | | ug/Kg | | 97 | 64 - 120 |
| Benzo[b]fluoranthene | 1650 | 1580 | | ug/Kg | | 96 | 64 - 120 |
| Benzo[g,h,i]perylene | 1650 | 1540 | | ug/Kg | | 94 | 45 - 145 |
| Benzo[k]fluoranthene | 1650 | 1630 | | ug/Kg | | 99 | 65 - 120 |
| Chrysene | 1650 | 1610 | | ug/Kg | | 98 | 64 - 120 |
| Dibenz(a,h)anthracene | 1650 | 1580 | | ug/Kg | | 96 | 54 - 132 |
| Fluoranthene | 1650 | 1550 | | ug/Kg | | 94 | 62 - 120 |
| Fluorene | 1650 | 1500 | | ug/Kg | | 91 | 63 - 120 |
| Indeno[1,2,3-cd]pyrene | 1650 | 1570 | | ug/Kg | | 95 | 56 - 134 |
| Naphthalene | 1650 | 1330 | | ug/Kg | | 81 | 55 - 120 |
| Phenanthrene | 1650 | 1500 | | ug/Kg | | 91 | 60 - 120 |
| Pyrene | 1650 | 1610 | | ug/Kg | | 98 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *87* | | *60 - 120* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *53 - 120* |
| *p-Terphenyl-d14 (Surr)* | *100* | | *65 - 121* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-400455/1-A**
**Matrix: Solid**
**Analysis Batch: 400892**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400455**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 2.0 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Barium | ND | | 0.50 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Cadmium | ND | | 0.20 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Chromium | ND | | 0.50 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Lead | ND | | 1.0 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Selenium | ND | | 4.0 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |
| Silver | ND | | 0.60 | | mg/Kg | | 02/19/18 15:11 | 02/21/18 06:42 | 1 |

**Lab Sample ID: LCSSRM 480-400455/2-A**
**Matrix: Solid**
**Analysis Batch: 400892**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400455**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 146 | 115.2 | | mg/Kg | | 78.9 | 69.9 - 132.9 |
| Barium | 102 | 80.42 | | mg/Kg | | 78.8 | 71.5 - 136.3 |
| Cadmium | 63.2 | 52.37 | | mg/Kg | | 82.9 | 73.3 - 141.5 |

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: LCSSRM 480-400455/2-A**
**Matrix: Solid**
**Analysis Batch: 400892**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400455**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chromium | 89.3 | 72.36 | | mg/Kg | | 81.0 | 69.1 - 143.3 |
| Lead | 98.5 | 88.42 | | mg/Kg | | 89.8 | 70.8 - 137.1 |
| Selenium | 136 | 105.2 | | mg/Kg | | 77.3 | 67.1 - 136.8 |
| Silver | 48.9 | 37.25 | | mg/Kg | | 76.2 | 66.5 - 139.5 |

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 480-400925/1-A**
**Matrix: Solid**
**Analysis Batch: 400946**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 400925**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.019 | | mg/Kg | | 02/21/18 15:20 | 02/21/18 16:49 | 1 |

**Lab Sample ID: LCSSRM 480-400925/2-A ^10**
**Matrix: Solid**
**Analysis Batch: 400946**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 400925**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 12.6 | 13.36 | | mg/Kg | | 106.0 | 44.4 - 128.6 |

## GC/MS VOA

### Analysis Batch: 400384

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-2 | SB-1 (4"-1') | Total/NA | Solid | 8260C | 400435 |
| MB 480-400435/2-A | Method Blank | Total/NA | Solid | 8260C | 400435 |
| LCS 480-400435/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 400435 |
| 480-131428-2 MS | SB-1 (4"-1') | Total/NA | Solid | 8260C | 400435 |
| 480-131428-2 MSD | SB-1 (4"-1') | Total/NA | Solid | 8260C | 400435 |

### Prep Batch: 400435

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-2 | SB-1 (4"-1') | Total/NA | Solid | 5035A_L | |
| MB 480-400435/2-A | Method Blank | Total/NA | Solid | 5035A_L | |
| LCS 480-400435/1-A | Lab Control Sample | Total/NA | Solid | 5035A_L | |
| 480-131428-2 MS | SB-1 (4"-1') | Total/NA | Solid | 5035A_L | |
| 480-131428-2 MSD | SB-1 (4"-1') | Total/NA | Solid | 5035A_L | |

### Analysis Batch: 400550

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-1 | MW-1 | Total/NA | Water | 8260C | |
| MB 480-400550/7 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-400550/5 | Lab Control Sample | Total/NA | Water | 8260C | |

### Prep Batch: 400648

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-4 | FD-1 | Total/NA | Solid | 5035A_H | |
| MB 480-400648/2-A | Method Blank | Total/NA | Solid | 5035A_H | |
| LCS 480-400648/1-A | Lab Control Sample | Total/NA | Solid | 5035A_H | |

### Analysis Batch: 400787

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 480-400648/2-A | Method Blank | Total/NA | Solid | 8260C | 400648 |
| LCS 480-400648/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 400648 |

### Analysis Batch: 400993

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-4 | FD-1 | Total/NA | Solid | 8260C | 400648 |

## GC/MS Semi VOA

### Prep Batch: 400401

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-3 | SB-5 (0-2') | Total/NA | Solid | 3550C | |
| 480-131428-4 | FD-1 | Total/NA | Solid | 3550C | |
| MB 480-400401/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 480-400401/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |

### Analysis Batch: 400911

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-3 | SB-5 (0-2') | Total/NA | Solid | 8270D | 400401 |
| 480-131428-4 | FD-1 | Total/NA | Solid | 8270D | 400401 |
| MB 480-400401/1-A | Method Blank | Total/NA | Solid | 8270D | 400401 |
| LCS 480-400401/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 400401 |

## Metals

### Prep Batch: 400455

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-3 | SB-5 (0-2') | Total/NA | Solid | 3050B | |
| 480-131428-4 | FD-1 | Total/NA | Solid | 3050B | |
| MB 480-400455/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCSSRM 480-400455/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |

### Analysis Batch: 400892

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-3 | SB-5 (0-2') | Total/NA | Solid | 6010C | 400455 |
| 480-131428-4 | FD-1 | Total/NA | Solid | 6010C | 400455 |
| MB 480-400455/1-A | Method Blank | Total/NA | Solid | 6010C | 400455 |
| LCSSRM 480-400455/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 400455 |

### Prep Batch: 400925

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-3 | SB-5 (0-2') | Total/NA | Solid | 7471B | |
| 480-131428-4 | FD-1 | Total/NA | Solid | 7471B | |
| MB 480-400925/1-A | Method Blank | Total/NA | Solid | 7471B | |
| LCSSRM 480-400925/2-A ^10 | Lab Control Sample | Total/NA | Solid | 7471B | |

### Analysis Batch: 400946

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-3 | SB-5 (0-2') | Total/NA | Solid | 7471B | 400925 |
| 480-131428-4 | FD-1 | Total/NA | Solid | 7471B | 400925 |
| MB 480-400925/1-A | Method Blank | Total/NA | Solid | 7471B | 400925 |
| LCSSRM 480-400925/2-A ^10 | Lab Control Sample | Total/NA | Solid | 7471B | 400925 |

## General Chemistry

### Analysis Batch: 400298

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-3 | SB-5 (0-2') | Total/NA | Solid | Moisture | |
| 480-131428-4 | FD-1 | Total/NA | Solid | Moisture | |

### Analysis Batch: 400659

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-131428-2 | SB-1 (4"-1') | Total/NA | Solid | Moisture | |

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

## Client Sample ID: MW-1
**Lab Sample ID: 480-131428-1**
**Date Collected: 02/15/18 16:00**
**Matrix: Water**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 2 | 400550 | 02/20/18 13:19 | MXS | TAL BUF |

## Client Sample ID: SB-1 (4"-1')
**Lab Sample ID: 480-131428-2**
**Date Collected: 02/15/18 08:00**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400659 | 02/20/18 11:22 | CDC | TAL BUF |

## Client Sample ID: SB-1 (4"-1')
**Lab Sample ID: 480-131428-2**
**Date Collected: 02/15/18 08:00**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**
**Percent Solids: 82.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 400435 | 02/19/18 10:44 | AEM | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 400384 | 02/19/18 12:54 | AEM | TAL BUF |

## Client Sample ID: SB-5 (0-2')
**Lab Sample ID: 480-131428-3**
**Date Collected: 02/15/18 13:50**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400298 | 02/17/18 07:32 | CSW | TAL BUF |

## Client Sample ID: SB-5 (0-2')
**Lab Sample ID: 480-131428-3**
**Date Collected: 02/15/18 13:50**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**
**Percent Solids: 80.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 400401 | 02/19/18 08:50 | NMC | TAL BUF |
| Total/NA | Analysis | 8270D | | 1 | 400911 | 02/21/18 22:43 | PJQ | TAL BUF |
| Total/NA | Prep | 3050B | | | 400455 | 02/19/18 15:11 | SMF | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 400892 | 02/21/18 07:26 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 400925 | 02/21/18 15:20 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 400946 | 02/21/18 17:12 | BMB | TAL BUF |

## Client Sample ID: FD-1
**Lab Sample ID: 480-131428-4**
**Date Collected: 02/15/18 14:30**
**Matrix: Solid**
**Date Received: 02/16/18 15:15**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 400298 | 02/17/18 07:32 | CSW | TAL BUF |

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

**Client Sample ID: FD-1**
**Date Collected: 02/15/18 14:30**
**Date Received: 02/16/18 15:15**

**Lab Sample ID: 480-131428-4**
**Matrix: Solid**
**Percent Solids: 64.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_H | | | 400648 | 02/20/18 10:43 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 10 | 400993 | 02/22/18 15:22 | AMM | TAL BUF |
| Total/NA | Prep | 3550C | | | 400401 | 02/19/18 08:50 | NMC | TAL BUF |
| Total/NA | Analysis | 8270D | | 20 | 400911 | 02/21/18 23:11 | PJQ | TAL BUF |
| Total/NA | Prep | 3050B | | | 400455 | 02/19/18 15:11 | SMF | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 400892 | 02/21/18 07:30 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 400925 | 02/21/18 15:20 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 400946 | 02/21/18 17:14 | BMB | TAL BUF |

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-18 * |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL BUF |
| 6010C | Metals (ICP) | SW846 | TAL BUF |
| 7471B | Mercury (CVAA) | SW846 | TAL BUF |
| Moisture | Fine Moisture | EPA | TAL BUF |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-131428-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-131428-1 | MW-1 | Water | 02/15/18 16:00 | 02/16/18 15:15 |
| 480-131428-2 | SB-1 (4"-1') | Solid | 02/15/18 08:00 | 02/16/18 15:15 |
| 480-131428-3 | SB-5 (0-2') | Solid | 02/15/18 13:50 | 02/16/18 15:15 |
| 480-131428-4 | FD-1 | Solid | 02/15/18 14:30 | 02/16/18 15:15 |

**TestAmerica Buffalo**
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-131428 COC

| Client Information | Sampler: Nick Sorrell | Lab PM: Fischer, Brian J | COC No: 480-109315-25440.2 |
|---|---|---|---|
| Client Contact: Nate Munley | Phone: 716-913-3437 | E-Mail: brian.fischer@testamericainc.com | Page: Page 2 of 2 |
| Company: Turnkey Environmental Restoration, LLC | | | Job #: |
| Address: 2558 Hamburg Turnpike Suite 300 | Due Date Requested: | | |
| City: Lackawanna | TAT Requested (days): | | |
| State, Zip: NY, 14218 | | | |
| Phone: | PO #: Purchase Order not required B0234-018 001 | | |
| Email: nmunley@benchmarkturnkey.com | WO #: | | |
| Project Name: Benchmark - 1200 Jefferson St | Project #: 48017568 | | |
| Site: 1200 Jefferson | SSOW#: | | |

**Analysis Requested**

**Preservation Codes:**

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - (MOD) TCL list OLM04.2 + CP-51(Stars) | 8260C - (MOD) TCL list OLM04.2 + Stars + CP51 | 6010C, 7471B | 8270D - PAH Semivolatiles | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | A | N | N | | |
| MW-1 | 2/15/18 | 1600 | | Water | | | | X | | | | |
| SB-1 (4"-1') | 2/15/18 | 9:00 | G | Soil ~~Water~~ | | | X | | | | | |
| SB-5 (0-2') | 2/15/18 | 13:50 | G | Soil ~~Water~~ | | | | | X | X | | |
| FD1 | 2/15/18 | 14:30 | G | Solid | | | X | | X | X | | |
| | | | | Solid | | | | | | | | |
| | | | | Solid | | | | | | | | |
| | | | | Solid | | | | | | | | |
| | | | | Solid | | | | | | | | |
| | | | | Solid | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Seperate report each chain

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | | 2/16/18 15:15 | | Chris Kidd/Cikolb | 2/16/18 1515 | TA |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| 3 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

8.8 #1

# Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-131428-1

**Login Number: 131428**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Williams, Christopher S**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | TER |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

# APPENDIX B

## PHOTOLOG

# SITE PHOTOGRAPHS

**Photo 1:**




**Photo 2:**

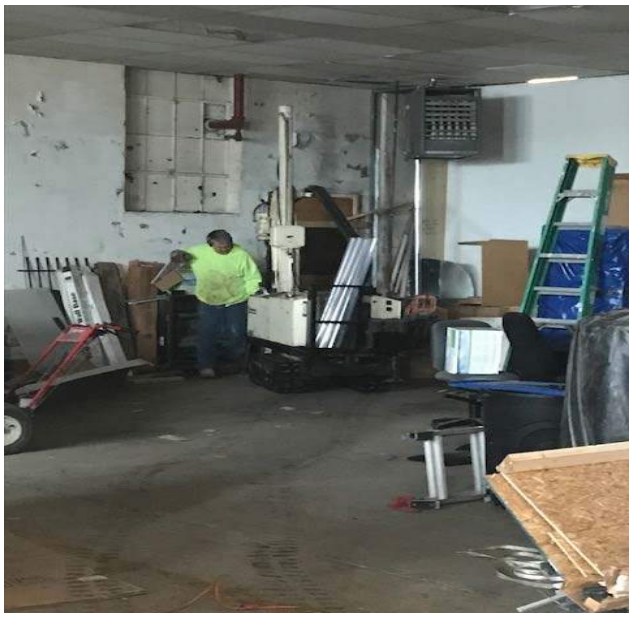


**Photo 3:**



**Photo 4:**



Photo 1: View of the interior soil boring SB-1/ TMW-1

Photo 2: View of the interior soil boring SB-3 facing south west.

Photo 3: View of the drilling of SB-10 facing northeast.

Photo 4: View of the drilling of SB-11/TMW-2 facing southwest.

# SITE PHOTOGRAPHS

**Photo 5:**



**Photo 6:**



**Photo 7:**



**Photo 8:**



Photo 5,6,7,8: Views of the grossly contaminated soils encountered at the Site within soil boring SB-11.

# SITE PHOTOGRAPHS

**Photo 9:**



**Photo 10:**



**Photo 11:**

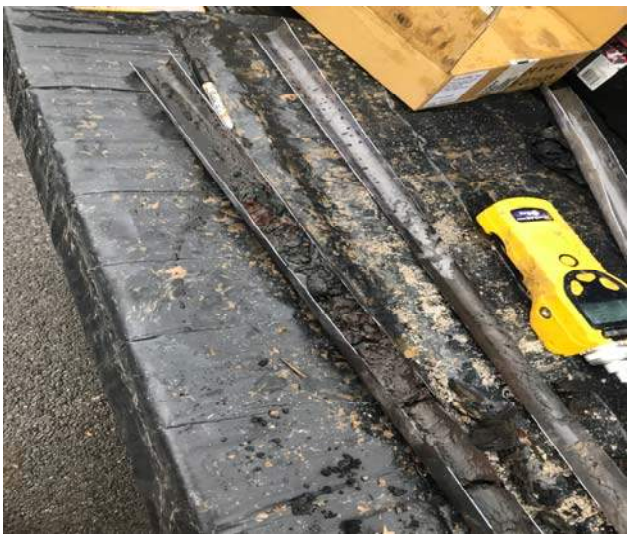


**Photo 12:**



Photo 9: View of the drilling of SB-12.

Photo 10,11,12: View of the soil/fill encountered across the Site. (note: black stained soils)

February 12, 2019

Mr. Nicholas Sinatra
1200 Jefferson Properties, LLC
617 Main Street, Suite 200
Buffalo, New York 14203

Re: Supplemental Site Investigation
1200 Jefferson Avenue Site
Buffalo, New York

Dear Mr. Sinatra:
As requested, TurnKey Environmental Restoration, LLC (TurnKey) has completed a supplemental investigation at the subject property, addressed at 1200 Jefferson Avenue, Buffalo New York (Site, see Figure 1). A description of the investigation and discussion of the findings is presented below.

**Site Description and Background**
The 1200 Jefferson Avenue Site, located between Northampton Street and Eaton Street, totaling approximately 1 acre, including one (1) existing building, with vacant land on the north side of the Site, and alleyway on the west side of the Site (see Figure 2).

A Limited Phase II Environmental Investigation was conducted by TurnKey in April 2018 the findings of the Ltd. Phase II Investigation included:

- Grossly contaminated petroleum soils were detected on Site, including visual product on soil cutting sleeve, associated with a historic closed in-place 8,000-gallon fuel oil UST.
- Elevated photoionization detector (PID) readings at four (4) locations.
- Elevated chlorinated VOCs, likely related to the former dry-cleaning operations on Site, were detected in soil samples.
- Elevated petroleum VOCs were detected in soil samples.
- Elevated chlorinated VOCs were detected in groundwater samples exceeding GWQS.
- Shallow fill material, including brick, block, cinders and ash were detected across the site, ranging in depth from 0-10 fbgs.
- Elevated metals, including arsenic, barium, chromium, lead and mercury were detected in on-Site soil/fill.

**Supplemental Site Investigation**

A Supplemental Site Investigation was conducted in December 2018 to further assess the identified VOC and metals impacts on-Site. The supplemental investigation included interior borings to further assess former dry cleaning related impacts beneath the existing building, and completion of additional exterior soil investigation to further assess metals impacted soil-fill in the northern portion of the Site (see Figure 2).

Interior Investigation

Subslab Soils

Seven (7) interior soils borings, identified as SB-23 through SB-29, were advanced using a direct push drill rig. A core drill was used to bore through the concrete floor at each location, prior to soil boring advancement. Soil samples were retrieved from beneath the existing concrete floor, in clear PVC sleeves to allow for field characterization and sample collection for laboratory analysis. TurnKey personnel scanned each core sample for volatile organics with PID and recorded visual and/or olfactory observations.

Elevated PID readings above background (0.0 ppm) were noted in five (5) of the seven (7) interior boring locations, with highest readings of 26 ppm at SB-25.
In general, the underlying soil-fill beneath the concrete slab can be described as approximately 6-inches of underlying gravel subbase, with fill, sand and clay beneath ranging from 1-12 fbgs. A summary of field findings is provided on Table 1.

Groundwater

Temporary monitoring wells were installed in soil borings, SB-23 (TMW-3) and SB-25 (TMW-4) (see Figure 2) to further assess groundwater beneath the existing building in the vicinity of the former dry cleaning operations. Elevated PID readings and odors were noted at approximately 6-10 fbgs for both wells. Groundwater was encountered at approximately 7-8 fbgs, with final well depth of 12 fbgs. The temporary wells were installed using one-inch diameter Schedule 40 PVC well screen and riser. Groundwater samples were collected from the temporary wells using dedicated and disposable polyethylene bailers.

Exterior Soil-Fill Investigation

Seven (7) test pits, identified as TP-1 through TP-7, were advanced to further assess petroleum and metals impacts identified during the previous investigation, the test pits were advanced to a depth of approximately nine (9) fbgs with the exception of TP-7 which was abandoned due to shallow water encountered at two (2) fbgs. All seven (7) test pits identified the presence of urban fill materials, including ash, cinders, brick, block/concrete, wood and glass ranging from 0-8 fbgs. Former building foundations were noted within test pits as well as at the surface on the northern portion of the Site. A summary of the field findings is presented on Table 1.

Soil and groundwater samples were collected in laboratory-provided sampling containers, cooled to 4°C in the field, and transported under chain-of-custody command to a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified analytical laboratory.

Representative soil/fill and groundwater samples were collected and selectively analyzed for NYSDEC CP-51 List plus Target Compound List (TCL) volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and Resource Conservation and Recovery Act (RCRA) metals. Laboratory analytical results are presented below.

**Analytical Results**

Six (6) soil/fill samples, including two (2) interior and four (4) exterior locations, and two (2) groundwater samples were collected from select investigation locations across the Site.

Soil analytical results indicate elevated tetrachloroethene (PCE) exceeding Restricted Residential Use SCOs (RRSCOs) at SB-25, and exceeding Protection of Groundwater SCOs at SB-29 from beneath the existing building. Elevated metals, including arsenic, barium, chromium, lead and mercury were detected exceeding USCOS and RRSCOs. For summary purposes, Table 2 shows both the initial as well as supplementary phase II soil/ fill analytical results.

Groundwater analytical results indicate elevated chlorinated VOCs, including PCE, trichloroethene (TCE), cis- and trans-1,2-dichloroethene (DCE) and vinyl chloride (VC) exceeding Groundwater Quality Standards (GWQS) in both samples. For summary purposes, Table 3 shows both the initial as well as supplementary phase II groundwater analytical results.

**Conclusions and Recommendations**

Based on the results of this investigation, TurnKey offers the following summary and recommendations:

- Evidence of chlorinated VOCs (dry-cleaning related chemicals) contamination in soil and groundwater was detected beneath the existing building that will require additional investigation and remediation.
- Evidence of fill materials with elevated metals was identified across the Site.
- Based on the findings of this investigation, additional Site investigation and remediation is required prior to redevelopment. We understand that 1200 Jefferson Properties, LLC is considering redeveloping the property; and based on findings of the investigation, the Site may be eligible for the New York Brownfield Cleanup Program.

**Declaration /Limitations**

This report has been prepared for the exclusive use of 1200 Jefferson Properties, LLC. The contents of this report are limited to information available at the time of the site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of 1200 Jefferson Properties, LLC. Use of or reliance upon this report or its findings by any other

person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

Please do not hesitate to contact us if you have any questions or wish to discuss this report in greater detail.

Sincerely,
TurnKey Environmental Restoration, LLC

Nathan T. Munley
Project Manager

Thomas H Forbes
Principal

0239-017-002

# TABLES

**TABLE 1**
**SUMMARY OF FIELD FINDINGS**
**1200 JEFFERSON AVENUE SITE**
**BUFFALO, NEW YORK**

| Location | Date | Fill Present | Depth of Fill | Visually Impacted Soil/Fill? | Olfactory Odor | Maximum PID Depth (fbgs) - Reading (ppm) | Soil Description and Depth (fbgs) |
|---|---|---|---|---|---|---|---|
| ***Soil Boring Locations*** | | | | | | | |
| SB-23 | 12/18/18 | No | N/a | | | 10'- 1.4 | **0-.33' Concrete**<br>**.33-.66' Gravel subbase:** Grey, moist mostly subangular gravel, little fine sand, no odors<br>**.66 - 1.5' Silty sand:** Dark brown, moist, mostly silt, little fine sand, few sub rounded gravel, no odors<br>**1.5-12.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (8'), mostly medium plasticity fines, some fine sand, stiff, no odors |
| SB-24 | 12/18/18 | No | N/a | | Yes | 10'-5.2 | **0-.33' Concrete**<br>**.33 - .66' Silty sand:** Dark brown, moist, mostly silt, little fine sand, few sub rounded gravel, no odors<br>**.66-12.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (7'), mostly medium plasticity fines, some fine sand, stiff, slight odors |
| SB-25 | 12/18/18 | No | N/a | | Yes | 6'- 26.7 | **0-.33' Concrete**<br>**.33-.50' Gravel subbase:**Grey, moist mostly subangular gravel little fine sand, no odors<br>**.50 - 1.0' Silty sand:** Dark brown, moist, mostly silt, little fine sand, few sub rounded gravel, no odors<br>**1.5-12.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (7'), mostly medium plasticity fines, some fines sand, stiff, slight odors |
| SB-26 | 12/18/18 | No | N/a | | | | **0-.33' Concrete**<br>**.33-12.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (8'), mostly medium plasticity fines, some fine sand, stiff, no odors |
| SB-27 | 12/18/18 | Yes | 1' | | | 5'- 1.5 | **0.0-0.25' Concrete**<br>**.25-1.0' Fill:** Tan, moist, mostly fine sand with urban fill[1], no odors<br>**1.0-10.0' Sandy Lean Clay:** Reddish brown, moist to wet (7.5'), mostly medium plasticity fines, some fines sand, stiff, no odors. |
| SB-28 | 12/18/18 | No | N/a | | | | **0-.33' Concrete**<br>**.33 - 1.5' Silty sand:** Dark brown, moist, mostly silt, little fine sand, few sub rounded gravel, no odors<br>**1.5-12.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (8'), mostly medium plasticity fines, some fine sand, stiff, no odors |
| SB-29 | 12/18/18 | No | N/a | | Yes | 6'-8 | **0-.50' Concrete**<br>**.50 - 2.0' Silty sand:** Dark brown, moist, mostly silt, little fine sand, few sub roaunded gravel, no odors<br>**2-10.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fine sand, stiff, sweet odor, Refusal at 10' |
| ***Test Pit Locations*** | | | | | | | |
| TP-1 | 12/14/18 | Yes | 7' | Black Staining | | 6'-1.2 | **0 - 2.0' Fill:** Brown, moist, mostly silty sand with urban fill [1], no odors<br>**2.0 - 6.0' Fill:** Black, moist to wet (6') mostly well graded sand with urban fill [1], no odors<br>**6.0 - 7.0' Concrete (foundation)**<br>**7.0 - 9.0' Sandy Lean Clay:** Reddish brown / tan, wet , mostly medium plasticity fines, some fine sand, stiff, no odors |
| TP-2 | 12/14/18 | Yes | 7' | | | | **0 - 2.0' Fill:** Black, moist, mostly well graded sand, with urban fill [1] , no odors<br>**2.0 - 5.0 Fill:** Black, moist, mostly former building materials (wood, metal, brick, concrete, plastic, metal pipes), urban fill [1], organic odors<br>**5.0 - 6.0' Ash:** greyish black, moist to wet (6'), mostly ash with urban fill, no odors<br>**6.0 - 7.0' Fill:** Black, wet (6') mostly well graded sand with urban fill [1], no odors<br>**7.0 - 9.0' Sandy Lean Clay:** Reddish brown / tan, wet , mostly medium plasticity fines, some fine sand, stiff, no |
| TP-3 | 12/14/18 | Yes | 2' | | | | **0 - 2.0' Fill:** Brown, moist, mostly silty sand with urban fill [1], no odors<br>**2.0 - 3.0' Ash:** grey, moist, mostly ash with urban fill[1], no odors<br>**3.0 - 9.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fine sand, stiff, no odors |
| TP-4 | 12/14/18 | Yes | 4' | | | | **0 - 2.0' Fill:** Brown, moist, mostly silty sand with urban fill [1], building materials, no odors<br>**2.0 - 5.0' Silty sand:** Tan, moist, mostly fine sand, little silt, no odors<br>**5.0 - 9.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fine sand, stiff, no odors |
| TP-5 | 12/14/18 | Yes | 3' | | | | **0 - 2.0' Fill:** Brown, moist, mostly silty sand with urban fill [1], building materials, no odors<br>**2.0 - 5.0' Silty sand:** Tan, moist, mostly fine sand, little silt, no odors<br>**5.0 - 9.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fine sand, stiff, no odors |
| TP-6 | 12/14/18 | Yes | 8.5 | | | | **0 - 8.0' Fill:** Brown, moist, mostly silty sand with urban fill [1], building materials, little ash, no odors<br>**8.0 - 8.5' Subangular Gravel:** Grey, moist, mostly subangular gravel, some fine sand, no odors<br>**8.5 - 9.0' Sandy Lean Clay:** Reddish brown / tan, moist to wet (8') , mostly medium plasticity fines, some fine sand, stiff, no odors |
| TP-7 | 12/14/18 | Yes | 5' | | Yes | 3'-.8 | **0 - 0.25 Asphalt**<br>**0.25 - 5.0' Fill:** Brown/black, Wet ( 2'), sheen on water, Mostly urban fill [1] , some fine sand, slight odors , hole abanadoned at 5' due to water |

**Notes:**
1. Urban Fill: Consisiting of brick, block, glass,metal, wood, ash, and cinders

**Definitions:**
fbgs = feet below ground surface
PID = MiniRae photoionization detector equipped with a 10.6 eV lamp
ppm = parts per million
N/A = Non applicable

TURNKEY ENVIRONMENTAL RESTORATION, LLC

# TABLE 2

## SUMMARY OF SUBSURFACE SOIL/FILL ANALYTICAL RESULTS

## 1200 JEFFERSON AVENUE SITE
## BUFFALO, NEW YORK

| PARAMETER [1] | Protection of Groundwater SCOs [2] | Unrestricted Use SCOs [2] | Restricted Residential Use SCOs [2] | Commercial Use SCOs [2] | Industrial Use SCO's [6] | SAMPLE LOCATION (DEPTH) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SB-1 (4"-1') | SB-5 (0-2') | FD-1 | SB-11 (7-8') | SB-12 (8-9') | SB-13 (6-8') | SB-18 (1.5-2.5') | SB-22 (.5-2.5') | SB-12 (2"-6") | SB-25 (5-7') | SB-29 (5-6') | TP-1 (6-7') | TP-2 (0-1') | TP-3 (2-3') | TP-6 (4-5') |
| | | | | | | 02/15/2018 | | | 02/16/2018 | | | | | | 12/18/2108 | | 12/14/2018 | | | |
| ***Volatile Organic Compounds (VOCs) - mg/Kg*** [3] | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | -- | 3.6 | 52 | 190 | 380 | ND | -- | 97 | ND | 7.2 | 8.1 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| 1,2-Dichlorobenzene | -- | 1.1 | 100 | 500 | 1,000 | ND | -- | ND | ND | ND | ND | -- | -- | -- | 0.0017 J | ND | ND | -- | -- | -- |
| 1,3,5-Trimethylbenzene | -- | 8.4 | 52 | 190 | 380 | ND | -- | 30 | ND | 2.4 | 2.3 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| 1,4-Dichlorobenzene | -- | 1.8 | 13 | 130 | 250 | ND | -- | ND | ND | ND | ND | -- | -- | -- | 0.0018 J | ND | ND | -- | -- | -- |
| 4-Isopropyltoluene | -- | -- | -- | -- | -- | ND | -- | 14 | ND | 0.14 | 0.17 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| Benzene | -- | 0.06 | 4.8 | 44 | 89 | ND | -- | ND | ND | 0.2 | 0.052 J | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| Chloroform | 0.37 | 0.37 | 49 | 350 | 700 | 0.003 | -- | ND | ND | ND | ND | -- | -- | -- | 0.0023 J | 0.00041 J | ND | -- | -- | -- |
| Chloromethane (Methyl chloride) | -- | | | -- | | ND | -- | ND | ND | ND | ND | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| cis-1,2-Dichloroethene | 0.25 | 0.25 | 100 | 500 | 1,000 | ND | -- | ND | 0.42 J | ND | ND | -- | -- | -- | 0.02 | 0.017 | ND | -- | -- | -- |
| Ethylbenzene | -- | 1 | 41 | 390 | 780 | ND | -- | 1.1 J | ND | 2.1 | 2.1 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| Isopropylbenzene (Cumene) | -- | -- | -- | -- | -- | ND | -- | 1.9 | ND | 0.29 | 0.16 | -- | -- | -- | 0.0061 | ND | ND | -- | -- | -- |
| Methylcyclohexane | -- | -- | -- | -- | -- | ND | -- | ND | ND | 1.3 | 0.42 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| Methylene chloride | 0.05 | 0.05 | 100 | 500 | 1,000 | ND | -- | 0.85 B,J | 0.24 B,J | 0.15 B | 0.13 B | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| n-Butylbenzene | -- | 12 | 100 | 500 | 1,000 | ND | -- | 34 | 5 | 0.91 | 0.54 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| n-Propylbenzene | -- | 3.9 | 100 | 500 | 1,000 | ND | -- | 4.6 | ND | 1.3 | 0.88 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| sec-Butylbenzene | -- | 11 | 100 | 500 | 1,000 | ND | -- | 1.1 | ND | 0.18 | 0.075 J | -- | -- | -- | 0.0019 J | ND | ND | -- | -- | -- |
| Tetrachloroethene | 1.3 | 1.3 | 19 | 150 | 300 | 0.22 | -- | ND | ND | 0.063 J | ND | -- | -- | -- | 110 E | 7.1 | ND | -- | -- | -- |
| Toluene | 0.7 | 0.7 | 100 | 500 | 1,000 | ND | -- | 2.5 | ND | 0.052 J | 0.28 | -- | -- | -- | ND | ND | ND | -- | -- | -- |
| trans-1,2-Dichloroethene | 0.19 | 0.19 | 100 | 500 | 1,000 | ND | -- | ND | ND | ND | ND | -- | -- | -- | 0.001 J | 0.0039 J | ND | -- | -- | -- |
| Trichloroethene | 0.47 | 0.47 | 21 | 200 | 400 | ND | -- | 0.54 J | ND | ND | ND | -- | -- | -- | 0.27 E | 0.45 | ND | -- | -- | -- |
| Total Xylenes | -- | 0.26 | 100 | 500 | 1000 | ND | -- | 11 | ND | 3.7 J | 11 | -- | -- | -- | 0.0043 J | ND | ND | -- | -- | -- |
| ***Semi-Volatile Organic Compounds (SVOCs) - mg/Kg*** [3] | | | | | | | | | | | | | | | | | | | | |
| Anthracene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.067 | ND | ND | -- | -- | -- | ND | ND | ND |
| Benzo(a)anthracene | -- | 1 | 1 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.21 | 0.69 J | 0.72 J | -- | -- | -- | 0.081 J | ND | ND |
| Benzo(a)pyrene | -- | 1 | 1 | 1 | 1 | -- | ND | ND | -- | -- | -- | 0.2 | 0.68 J | 0.63 J | -- | -- | -- | 0.081 J | 0.047 J | ND |
| Benzo(b)fluoranthene | -- | 1 | 1 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.25 | 0.85 J | 0.77 J | -- | -- | -- | 0.096 J | 0.044 J | ND |
| Benzo(ghi)perylene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.16 J | 0.45 J | 0.46 J | -- | -- | -- | 0.056 J | 0.038 J | ND |
| Benzo(k)fluoranthene | -- | 0.8 | 3.9 | 56 | 110 | -- | ND | ND | -- | -- | -- | 0.12 J | 0.44 J | ND | -- | -- | -- | ND | ND | ND |
| Carbazole | -- | -- | -- | -- | -- | -- | ND | ND | -- | -- | -- | ND | ND | ND | -- | -- | -- | ND | ND | ND |
| Chrysene | -- | 1 | 3.9 | 56 | 110 | -- | ND | ND | -- | -- | -- | 0.22 | 0.75 J | 0.7 J | -- | -- | -- | 0.093 J | ND | ND |
| Fluoranthene | -- | 100 | 100 | 500 | 1,000 | -- | 0.029 | 11 J | -- | -- | -- | 0.3 | 1.3 J | 1.3 | -- | -- | -- | ND | 0.039 | 18 |
| Indeno(1,2,3-cd)pyrene | -- | 0.5 | 0.5 | 5.6 | 11 | -- | ND | ND | -- | -- | -- | 0.14 J | 0.44 J | ND | -- | -- | -- | ND | 0.028 | ND |
| Naphthalene | -- | 12 | 100 | 500 | 1,000 | -- | ND | 38 J | -- | -- | -- | 0.086 J | ND | ND | -- | -- | -- | ND | ND | ND |
| Phenanthrene | -- | 100 | 100 | 500 | 1,000 | -- | ND | 8.8 J | -- | -- | -- | 0.27 | 0.56 J | 0.79 J | -- | -- | -- | 0.17 J | ND | ND |
| Pyrene | -- | 100 | 100 | 500 | 1,000 | -- | ND | ND | -- | -- | -- | 0.34 | 1.2 J | 1.3 | -- | -- | -- | 0.095 J | 0.042 | 15 |
| Total PAHs | -- | -- | 100 | 500 | -- | -- | 0.029 | 57.8 | -- | -- | -- | 2.363 | 7.36 | 6.67 | -- | -- | -- | ND | ND | ND |
| ***Metals - mg/Kg*** | | | | | | | | | | | | | | | | | | | | |
| Arsenic | -- | 13 | 16 | 16 | 16 | -- | 6 | 3.5 | -- | -- | -- | 11.8 | 8.8 | 18.3 | -- | -- | -- | 10.5 | 4.7 | 4.3 |
| Barium | -- | 350 | 400 | 400 | 10,000 | -- | 127 | 436 | -- | -- | -- | 55.9 | 155 | 116 | -- | -- | -- | 74.4 | 83.9 | 295 |
| Cadmium | -- | 2.5 | 4.3 | 9.3 | 60 | -- | ND | ND | -- | -- | -- | ND | 0.66 | ND | -- | -- | -- | ND | ND | 1.8 |
| Chromium | -- | 30 | 180 | 1,500 | 6,800 | -- | 23.7 | 228 | -- | -- | -- | 10.2 | 15.1 | 14.6 | -- | -- | -- | 25.7 | 21.6 | 14.6 |
| Lead | -- | 63 | 400 | 1,000 | 3,900 | -- | 205 | 36.9 | -- | -- | -- | 12.8 | 346 | 63.3 | -- | -- | -- | 12.4 | 51.3 | 739 |
| Mercury | -- | 0.18 | 0.81 | 2.8 | 6 | -- | 0.26 | 0.046 | -- | -- | -- | 0.19 | 0.19 | 0.099 | -- | -- | -- | 0.069 | 0.21 | 0.96 |

**Notes:**

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs

**Definitions:**

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter. Or parameter not analysed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analyte was detected in associated method blank.

| | |
|---|---|
| **Bold** | = Result exceeds Protection of Groundwater SCOs. |
| **Bold** | = Result exceeds Unrestricted Use SCOs. |
| **Bold** | = Result exceeds Restricted Residential Use SCOs. |
| **Bold** | = Result exceeds Commercial Use SCOs. |
| **Bold** | = Result exceeds Industrial Use SCOs. |

**TABLE 3**

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**

**1200 JEFFERSON AVENUE SITE**
**BUFFALO, NEW YORK**

| Parameters [1] | Class GA GWQS[2] | Sample Location | | | |
|---|---|---|---|---|---|
| | | TMW-1 | TMW-2 | TMW-3 | TMW-4 |
| | | 2/15/18 | 2/16/18 | 12/19/18 | |
| ***Volatile Organic Compounds (VOCs) - ug/L*** | | | | | |
| 1,1-Dichloroethene | **5** | ND | 1.4 | ND | ND |
| Chloroform | **7** | 3 | ND | ND | ND |
| Methylene Chloride | **5** | 3.1 | 0.96 | ND | ND |
| n-Butylbenzene | **5** | ND | **7.5** | ND | ND |
| Tetrachloroethene | **5** | **30** | **6.3** | **280** | **1900 F1** |
| Trichloroethene | **5** | ND | **11** | **36** | **130** |
| cis-1,2-Dichloroethene | **5** | 2.7 | **470** | **9.3** | **860 F1** |
| trans-1,2-Dichloroethene | **5** | ND | **9.2** | ND | **34** |
| Vinyl Chloride | **2** | ND | **360** | ND | **24** |

**Notes:**
1. Only parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards.

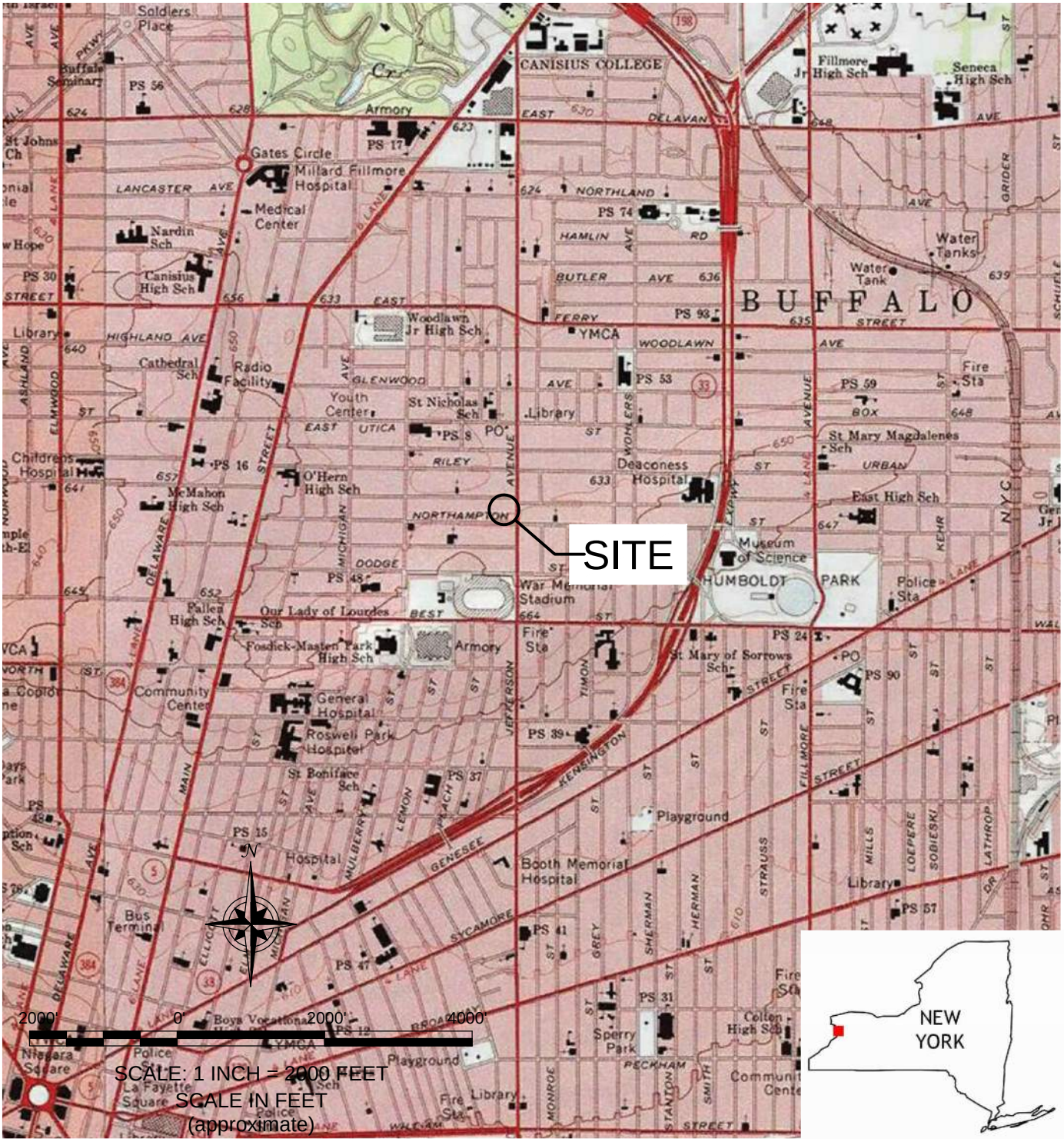
**Qualifiers:**
ND = Parameter not detected above laboratory detection limit.

**BOLD** = Result exceeds GWQS.

# FIGURES

F:\CAD\TurnKey\Sinatra\1200 Jefferson\Supplemental Phase II\Figure 1 - Site Location and Vicinity Map.dwg

# FIGURE 1





TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635


PROJECT NO.: 0239-018-001

DATE: FEBRUARY 2019

DRAFTED BY: CMS

## SITE LOCATION AND VICINITY MAP

SUPPLEMENTAL SITE INVESTIGATION

1200 JEFFERSON AVENUE SITE

BUFFALO, NEW YORK

PREPARED FOR

1200 JEFFERSON PROPERTIES, LLC


*DISCLAIMER:*
*PROPERTY OF TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF TURNKEY ENVIRONMENTAL RESTORATION, LLC.*

F:\CAD\TurnKey\Sinatra\1200 Jefferson\Supplemental Phase II\Figure 2 - Investigation Locations and Areas of Concern.dwg

## LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- SB-1 — SUPPLEMENTAL PHASE II SOIL BORING
- SB-2/TMW-2 — SUPPLEMENTAL PHASE II SOIL BORING/TEMPORARY MONITORING WELL
- TP-1 — SUPPLEMENTAL PHASE II TEST PIT
- SB-3 — PHASE II SOIL BORING
- SB-4/TMW-4 — PHASE II SOIL BORING/ TEMPORARY MONITORING WELL
- APPROXIMATE LOCATION OF FORMER DRYCLEANING OPERATIONS

NOTE:
- PHASE II ANALYTICAL SOIL BORINGS, SURFACE, SEDIMENT AND GROUNDWATER SAMPLING COMPLETED BY TURNKEY ENVIRONMENTAL RESTORATION, LLC. FEBRUARY 2017.

- = EXCEEDS NYCRR PART 375 PROTECTION OF GROUNDWATER SCOs
- = EXCEEDS NYCRR PART 375 RRSCOs
- = EXCEEDS NYCRR PART 375 CSCOs
- = EXCEEDS NYCRR PART 375 ISCOs
- = EXCEEDS NYSDEC CLASS "GA" GROUNDWATER QUALITY STANDARDS

EATON ST

JEFFERSON AVE

NORTHAMPTON ST

TP-1 TP-2 TP-3 TP-4 TP-5 TP-6 TP-7

SB-1/TMW-1 SB-2 SB-3 SB-4 SB-5 SB-6 SB-7 SB-8 SB-9 SB-10 SB-11/TMW-2 SB-12 SB-13 SB-14 SB-15 SB-16 SB-17 SB-18 SB-19 SB-20 SB-21 SB-22 SB-23/TMW-3 SB-24 SB-25/TMW-4 SB-26 SB-27 SB-28 SB-29

| FD-1 | MG/KG |
|---|---|
| 1,2,4-TRIMETHYLBENZENE | 97 |
| METHYLENE CHLORIDE | 0.85 |
| TRICHLOROETHENE | 0.54 |
| BARIUM | 436 |
| CHROMIUM | 228 |

| ODORS NOTED PID READING = 8 PPM | |
|---|---|
| SB-29 (5-6') | MG/KG |
| TETRACHLOROETHENE | 7.10 |

APPROXIMATE LOCATION OF 8,000-GALLON CLOSED-IN-PLACE UST

| URBAN FILL PRESENT FROM 0-4 FBGS PRODUCT NOTED ON SLEEVE AND SOIL WITH ODORS PID READING = 58 PPM | |
|---|---|
| SB-11 (7-8') | MG/KG |
| CIS-1,2-DICHLOROETHENE | 0.42 |
| METHYLENE CHLORIDE | 0.24 |
| TMW-2 | UG/L |
| N-BUTYLBENZENE | 7.5 |
| TETRACHLOROETHENE | 6.3 |
| TRICHLOROETHENE | 11 |
| CIS-1,2-DICHLOROETHENE | 470 |
| TRANS-1,2-DICHLOROETHENE | 9.2 |
| VINYL CHLORIDE | 360 |

| URBAN FILL PRESENT FROM 0-8.5 FBGS | |
|---|---|
| TP-6 (4-5') | MG/KG |
| LEAD | 739 |
| MERCURY | 0.96 |

| STRONG ODORS NOTED FROM 0.75-12 FBGS PID READING = 295 PPM | |
|---|---|
| SB-13 (6-8') | MG/KG |
| METHYLENE CHLORIDE | 0.13 |

LOCATION OF 2 FORMER USTs

| URBAN FILL PRESENT FROM 0-0.75 FBGS WITH ODORS PID READING = 3 PPM | |
|---|---|
| SB-12 (2"-6") | MG/KG |
| ARSENIC | 18.3 |
| STRONG ODORS NOTED FROM 0.75-12 FBGS PID READING = 368 PPM | |
| SB-12 (8-9') | MG/KG |
| METHYLENE CHLORIDE | 0.15 |

| TMW-3 | UG/L |
|---|---|
| TETRACHLOROETHENE | 280 |
| TRICHLOROETHENE | 36 |
| CIS-1,2-DICHLOROETHENE | 9.3 |

| TMW-1 | UG/L |
|---|---|
| TETRACHLOROETHENE | 30 |

| ODORS NOTED PID READING = 26.7 PPM | |
|---|---|
| SB-25 (5-7') | MG/KG |
| TETRACHLOROETHENE | 110 |
| TMW-4 | UG/L |
| TETRACHLOROETHENE | 1900 |
| TRICHLOROETHENE | 130 |
| CIS-1,2-DICHLOROETHENE | 860 |
| TRANS-1,2-DICHLOROETHENE | 34 |
| VINYL CHLORIDE | 24 |

N

60' 0' 60' 120'

SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)

DATE: FEBRUARY 2019
DRAFTED BY: CMS


TurnKey Environmental Restoration, LLC
BENCHMARK Environmental Engineering & Science, PLLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599


JOB NO.: B0239-018-001

# INVESTIGATION LOCATIONS AND AREAS OF CONCERN

SUPPLEMENTAL SITE INVESTIGATION

1200 JEFFERSON AVENUE SITE
BUFFALO, NEW YORK

PREPARED FOR
1200 JEFFERSON PROPERTIES, LLC

**FIGURE 2**


*DISCLAIMER: PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.*

# ATTACHMENT 1

## LABORATORY ANALYTICAL DATA PACKAGE (ELECTRONICALLY)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-146928-1
Client Project/Site: Benchmark - 1200 Jefferson St

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Nate Munley

*Authorized for release by:*
*12/27/2018 11:56:10 AM*

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate is outside control limits |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 480-146928-1

### Laboratory: TestAmerica Buffalo

**Narrative**

**Job Narrative**
**480-146928-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 12/17/2018 11:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

**GC/MS VOA**
Method(s) 8260C: The following sample was analyzed using medium level soil analysis due to the nature of the sample matrix: TP-1 (6-7') (480-146928-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-451531 recovered outside acceptance criteria, low biased, for 1,1,2-Trichloro-1,2,2-trifluoroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
Method(s) 8270D: The following sample was diluted due to color, appearance and viscosity: TP-6 (4-5') (480-146928-4). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: TP-6 (4-5') (480-146928-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
Method(s) 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: TP-6 (4-5') (480-146928-4). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

## Client Sample ID: TP-1 (6-7') — Lab Sample ID: 480-146928-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | 41 | J B | 190 | 25 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: TP-2 (0-1') — Lab Sample ID: 480-146928-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | 81 | J | 230 | 23 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 81 | J | 230 | 34 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 96 | J | 230 | 37 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 56 | J | 230 | 25 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 93 | J | 230 | 52 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 100 | J | 230 | 25 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 49 | J | 230 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Naphthalene | 93 | J | 230 | 30 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 170 | J | 230 | 34 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 95 | J | 230 | 27 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 10.5 | | 2.7 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 74.4 | | 0.66 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 25.7 | | 0.66 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 12.4 | | 1.3 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.069 | | 0.027 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-3 (2-3') — Lab Sample ID: 480-146928-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | 47 | J | 230 | 34 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 44 | J | 230 | 36 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 38 | J | 230 | 24 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 39 | J | 230 | 24 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 28 | J | 230 | 28 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 42 | J | 230 | 27 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 4.7 | | 2.8 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 83.9 | | 0.69 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 21.6 | | 0.69 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 51.3 | | 1.4 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.21 | | 0.027 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-6 (4-5') — Lab Sample ID: 480-146928-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | 18000 | J | 120000 | 12000 | ug/Kg | 50 | ☼ | 8270D | Total/NA |
| Pyrene | 15000 | J | 120000 | 14000 | ug/Kg | 50 | ☼ | 8270D | Total/NA |
| Arsenic | 4.3 | | 2.8 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 295 | | 0.71 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 1.8 | | 0.28 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 14.6 | | 0.71 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 739 | | 1.4 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.96 | | 0.028 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

**Client Sample ID: TP-1 (6-7')**
**Date Collected: 12/14/18 08:00**
**Date Received: 12/17/18 11:40**

**Lab Sample ID: 480-146928-1**
**Matrix: Solid**
**Percent Solids: 60.8**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 190 | 54 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 190 | 32 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 190 | 97 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,1,2-Trichloroethane | ND | | 190 | 41 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,1-Dichloroethane | ND | | 190 | 60 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,1-Dichloroethene | ND | | 190 | 67 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 190 | 74 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 190 | 54 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 190 | 97 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,2-Dibromoethane | ND | | 190 | 34 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,2-Dichlorobenzene | ND | | 190 | 50 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,2-Dichloroethane | ND | | 190 | 80 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,2-Dichloropropane | ND | | 190 | 32 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 190 | 59 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,3-Dichlorobenzene | ND | | 190 | 52 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 1,4-Dichlorobenzene | ND | | 190 | 27 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 2-Butanone (MEK) | ND | | 970 | 580 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 2-Hexanone | ND | | 970 | 400 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 4-Isopropyltoluene | ND | | 190 | 66 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 970 | 62 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Acetone | ND | | 970 | 800 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Benzene | ND | | 190 | 37 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Bromodichloromethane | ND | | 190 | 39 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Bromoform | ND | | 190 | 97 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Bromomethane | ND | | 190 | 43 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Carbon disulfide | ND | | 190 | 89 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Carbon tetrachloride | ND | | 190 | 50 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Chlorobenzene | ND | | 190 | 26 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Chloroethane | ND | | 190 | 41 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Chloroform | ND | | 190 | 130 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Chloromethane | ND | | 190 | 46 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| cis-1,2-Dichloroethene | ND | | 190 | 54 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| cis-1,3-Dichloropropene | ND | | 190 | 47 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Cyclohexane | ND | | 190 | 43 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Dibromochloromethane | ND | | 190 | 94 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Dichlorodifluoromethane | ND | | 190 | 85 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Ethylbenzene | ND | | 190 | 57 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Isopropylbenzene | ND | | 190 | 29 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| m,p-Xylene | ND | | 390 | 110 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Methyl acetate | ND | | 970 | 93 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Methyl tert-butyl ether | ND | | 190 | 74 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Methylcyclohexane | ND | | 190 | 91 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Methylene Chloride | ND | | 190 | 39 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| n-Butylbenzene | ND | | 190 | 57 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| N-Propylbenzene | ND | | 190 | 51 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| **o-Xylene** | **41** | **J B** | 190 | 25 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| sec-Butylbenzene | ND | | 190 | 72 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Styrene | ND | | 190 | 47 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| tert-Butylbenzene | ND | | 190 | 54 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

**Client Sample ID: TP-1 (6-7')**
**Date Collected: 12/14/18 08:00**
**Date Received: 12/17/18 11:40**

**Lab Sample ID: 480-146928-1**
**Matrix: Solid**
**Percent Solids: 60.8**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | | 190 | 26 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Toluene | ND | | 190 | 52 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| trans-1,2-Dichloroethene | ND | | 190 | 46 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| trans-1,3-Dichloropropene | ND | | 190 | 19 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Trichloroethene | ND | | 190 | 54 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Trichlorofluoromethane | ND | | 190 | 91 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Vinyl chloride | ND | | 190 | 65 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |
| Xylenes, Total | ND | | 390 | 110 | ug/Kg | ☼ | 12/18/18 12:31 | 12/19/18 02:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *53 - 146* | *12/18/18 12:31* | *12/19/18 02:53* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *49 - 148* | *12/18/18 12:31* | *12/19/18 02:53* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *60 - 140* | *12/18/18 12:31* | *12/19/18 02:53* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *50 - 149* | *12/18/18 12:31* | *12/19/18 02:53* | *1* |

**Client Sample ID: TP-2 (0-1')**
**Date Collected: 12/14/18 10:00**
**Date Received: 12/17/18 11:40**

**Lab Sample ID: 480-146928-2**
**Matrix: Solid**
**Percent Solids: 72.9**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 230 | 34 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| Acenaphthylene | ND | | 230 | 30 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| Anthracene | ND | | 230 | 57 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Benzo[a]anthracene** | **81** | **J** | 230 | 23 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Benzo[a]pyrene** | **81** | **J** | 230 | 34 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Benzo[b]fluoranthene** | **96** | **J** | 230 | 37 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Benzo[g,h,i]perylene** | **56** | **J** | 230 | 25 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| Benzo[k]fluoranthene | ND | | 230 | 30 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Chrysene** | **93** | **J** | 230 | 52 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| Dibenz(a,h)anthracene | ND | | 230 | 41 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Fluoranthene** | **100** | **J** | 230 | 25 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| Fluorene | ND | | 230 | 27 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **49** | **J** | 230 | 29 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Naphthalene** | **93** | **J** | 230 | 30 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Phenanthrene** | **170** | **J** | 230 | 34 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |
| **Pyrene** | **95** | **J** | 230 | 27 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 21:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *99* | | *60 - 120* | *12/19/18 14:32* | *12/21/18 21:53* | *1* |
| *Nitrobenzene-d5 (Surr)* | *97* | | *53 - 120* | *12/19/18 14:32* | *12/21/18 21:53* | *1* |
| *p-Terphenyl-d14 (Surr)* | *109* | | *65 - 121* | *12/19/18 14:32* | *12/21/18 21:53* | *1* |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **10.5** | | 2.7 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:27 | 1 |
| **Barium** | **74.4** | | 0.66 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:27 | 1 |
| Cadmium | ND | | 0.27 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:27 | 1 |
| **Chromium** | **25.7** | | 0.66 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:27 | 1 |
| **Lead** | **12.4** | | 1.3 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:27 | 1 |
| Selenium | ND | | 5.3 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:27 | 1 |
| Silver | ND | | 0.80 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:27 | 1 |

## Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.069** | | 0.027 | | mg/Kg | ☼ | 12/21/18 11:10 | 12/21/18 15:40 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

**Client Sample ID: TP-3 (2-3')**
**Date Collected: 12/14/18 10:30**
**Date Received: 12/17/18 11:40**

**Lab Sample ID: 480-146928-3**
**Matrix: Solid**
**Percent Solids: 73.6**

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 230 | 34 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Acenaphthylene | ND | | 230 | 30 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Anthracene | ND | | 230 | 56 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Benzo[a]anthracene | ND | | 230 | 23 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| **Benzo[a]pyrene** | **47** | **J** | 230 | 34 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| **Benzo[b]fluoranthene** | **44** | **J** | 230 | 36 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| **Benzo[g,h,i]perylene** | **38** | **J** | 230 | 24 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Benzo[k]fluoranthene | ND | | 230 | 30 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Chrysene | ND | | 230 | 51 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Dibenz(a,h)anthracene | ND | | 230 | 40 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| **Fluoranthene** | **39** | **J** | 230 | 24 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Fluorene | ND | | 230 | 27 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **28** | **J** | 230 | 28 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Naphthalene | ND | | 230 | 30 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| Phenanthrene | ND | | 230 | 34 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |
| **Pyrene** | **42** | **J** | 230 | 27 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *94* | | *60 - 120* | *12/19/18 14:32* | *12/21/18 22:22* | *1* |
| *Nitrobenzene-d5 (Surr)* | *98* | | *53 - 120* | *12/19/18 14:32* | *12/21/18 22:22* | *1* |
| *p-Terphenyl-d14 (Surr)* | *110* | | *65 - 121* | *12/19/18 14:32* | *12/21/18 22:22* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.7** | | 2.8 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:31 | 1 |
| **Barium** | **83.9** | | 0.69 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:31 | 1 |
| Cadmium | ND | | 0.28 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:31 | 1 |
| **Chromium** | **21.6** | | 0.69 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:31 | 1 |
| **Lead** | **51.3** | | 1.4 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:31 | 1 |
| Selenium | ND | | 5.5 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:31 | 1 |
| Silver | ND | | 0.83 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:31 | 1 |

### Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.21** | | 0.027 | | mg/Kg | ☼ | 12/21/18 11:10 | 12/21/18 15:41 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

**Client Sample ID: TP-6 (4-5')**
**Date Collected: 12/14/18 12:00**
**Date Received: 12/17/18 11:40**

**Lab Sample ID: 480-146928-4**
**Matrix: Solid**
**Percent Solids: 71.7**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 120000 | 17000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Acenaphthylene | ND | | 120000 | 15000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Anthracene | ND | | 120000 | 29000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Benzo[a]anthracene | ND | | 120000 | 12000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Benzo[a]pyrene | ND | | 120000 | 17000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Benzo[b]fluoranthene | ND | | 120000 | 18000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Benzo[g,h,i]perylene | ND | | 120000 | 12000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Benzo[k]fluoranthene | ND | | 120000 | 15000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Chrysene | ND | | 120000 | 26000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Dibenz(a,h)anthracene | ND | | 120000 | 20000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| **Fluoranthene** | **18000** | **J** | 120000 | 12000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Fluorene | ND | | 120000 | 14000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Indeno[1,2,3-cd]pyrene | ND | | 120000 | 14000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Naphthalene | ND | | 120000 | 15000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| Phenanthrene | ND | | 120000 | 17000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |
| **Pyrene** | **15000** | **J** | 120000 | 14000 | ug/Kg | ☼ | 12/19/18 14:32 | 12/21/18 22:51 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *0* | *X* | *60 - 120* | *12/19/18 14:32* | *12/21/18 22:51* | *50* |
| *Nitrobenzene-d5 (Surr)* | *0* | *X* | *53 - 120* | *12/19/18 14:32* | *12/21/18 22:51* | *50* |
| *p-Terphenyl-d14 (Surr)* | *0* | *X* | *65 - 121* | *12/19/18 14:32* | *12/21/18 22:51* | *50* |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.3** | | 2.8 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:46 | 1 |
| **Barium** | **295** | | 0.71 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:46 | 1 |
| **Cadmium** | **1.8** | | 0.28 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:46 | 1 |
| **Chromium** | **14.6** | | 0.71 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:46 | 1 |
| **Lead** | **739** | | 1.4 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:46 | 1 |
| Selenium | ND | | 5.7 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:46 | 1 |
| Silver | ND | | 0.85 | | mg/Kg | ☼ | 12/19/18 08:00 | 12/20/18 02:46 | 1 |

## Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.96** | | 0.028 | | mg/Kg | ☼ | 12/21/18 11:10 | 12/21/18 15:42 | 1 |

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (53-146) | (49-148) | (60-140) | (50-149) |
| 480-146928-1 | TP-1 (6-7') | 91 | 101 | 90 | 94 |
| LCS 480-451417/1-A | Lab Control Sample | 97 | 106 | 96 | 95 |
| MB 480-451417/2-A | Method Blank | 94 | 101 | 91 | 94 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | FBP | NBZ | TPHd14 |
| Lab Sample ID | Client Sample ID | (60-120) | (53-120) | (65-121) |
| 480-146928-2 | TP-2 (0-1') | 99 | 97 | 109 |
| 480-146928-3 | TP-3 (2-3') | 94 | 98 | 110 |
| 480-146928-4 | TP-6 (4-5') | 0 X | 0 X | 0 X |
| LCS 480-451729/2-A | Lab Control Sample | 97 | 96 | 111 |
| MB 480-451729/1-A | Method Blank | 92 | 95 | 103 |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-451417/2-A**
**Matrix: Solid**
**Analysis Batch: 451531**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 451417**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 100 | 28 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 100 | 16 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 100 | 50 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 100 | 21 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,1-Dichloroethane | ND | | 100 | 31 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,1-Dichloroethene | ND | | 100 | 35 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 100 | 38 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 100 | 28 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 100 | 50 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,2-Dibromoethane | ND | | 100 | 18 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 100 | 26 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,2-Dichloroethane | ND | | 100 | 41 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,2-Dichloropropane | ND | | 100 | 16 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 100 | 30 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 100 | 27 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 100 | 14 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 2-Butanone (MEK) | ND | | 500 | 300 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 2-Hexanone | ND | | 500 | 210 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 4-Isopropyltoluene | ND | | 100 | 34 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | 32 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Acetone | ND | | 500 | 410 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Benzene | ND | | 100 | 19 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Bromodichloromethane | ND | | 100 | 20 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Bromoform | ND | | 100 | 50 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Bromomethane | ND | | 100 | 22 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Carbon disulfide | ND | | 100 | 46 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Carbon tetrachloride | ND | | 100 | 26 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Chlorobenzene | ND | | 100 | 13 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Chloroethane | ND | | 100 | 21 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Chloroform | ND | | 100 | 69 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Chloromethane | ND | | 100 | 24 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 100 | 28 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 100 | 24 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Cyclohexane | ND | | 100 | 22 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Dibromochloromethane | ND | | 100 | 48 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Dichlorodifluoromethane | ND | | 100 | 44 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Ethylbenzene | ND | | 100 | 29 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Isopropylbenzene | ND | | 100 | 15 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| m,p-Xylene | ND | | 200 | 55 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Methyl acetate | ND | | 500 | 48 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Methyl tert-butyl ether | ND | | 100 | 38 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Methylcyclohexane | ND | | 100 | 47 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Methylene Chloride | ND | | 100 | 20 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| n-Butylbenzene | ND | | 100 | 29 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| N-Propylbenzene | ND | | 100 | 26 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| o-Xylene | 18.5 | J | 100 | 13 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| sec-Butylbenzene | ND | | 100 | 37 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Styrene | ND | | 100 | 24 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-451417/2-A**
**Matrix: Solid**
**Analysis Batch: 451531**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 451417**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| tert-Butylbenzene | ND | | 100 | 28 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Tetrachloroethene | ND | | 100 | 13 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Toluene | ND | | 100 | 27 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 100 | 24 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 100 | 9.8 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Trichloroethene | ND | | 100 | 28 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Trichlorofluoromethane | ND | | 100 | 47 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Vinyl chloride | ND | | 100 | 34 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |
| Xylenes, Total | ND | | 200 | 55 | ug/Kg | | 12/18/18 12:31 | 12/18/18 22:58 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *53 - 146* | *12/18/18 12:31* | *12/18/18 22:58* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *49 - 148* | *12/18/18 12:31* | *12/18/18 22:58* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *60 - 140* | *12/18/18 12:31* | *12/18/18 22:58* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *50 - 149* | *12/18/18 12:31* | *12/18/18 22:58* | *1* |

**Lab Sample ID: LCS 480-451417/1-A**
**Matrix: Solid**
**Analysis Batch: 451531**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 451417**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2500 | 2130 | | ug/Kg | | 85 | 68 - 130 |
| 1,1,2,2-Tetrachloroethane | 2500 | 1940 | | ug/Kg | | 78 | 73 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 | 2040 | | ug/Kg | | 81 | 10 - 179 |
| 1,1,2-Trichloroethane | 2500 | 2170 | | ug/Kg | | 87 | 80 - 120 |
| 1,1-Dichloroethane | 2500 | 2190 | | ug/Kg | | 87 | 78 - 121 |
| 1,1-Dichloroethene | 2500 | 2010 | | ug/Kg | | 81 | 48 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2020 | | ug/Kg | | 81 | 70 - 140 |
| 1,2,4-Trimethylbenzene | 2500 | 2040 | | ug/Kg | | 81 | 77 - 127 |
| 1,2-Dibromo-3-Chloropropane | 2500 | 2000 | | ug/Kg | | 80 | 56 - 122 |
| 1,2-Dibromoethane | 2500 | 2140 | | ug/Kg | | 86 | 80 - 120 |
| 1,2-Dichlorobenzene | 2500 | 2110 | | ug/Kg | | 84 | 78 - 125 |
| 1,2-Dichloroethane | 2500 | 2260 | | ug/Kg | | 90 | 74 - 127 |
| 1,2-Dichloropropane | 2500 | 2160 | | ug/Kg | | 87 | 80 - 120 |
| 1,3,5-Trimethylbenzene | 2500 | 2040 | | ug/Kg | | 82 | 79 - 120 |
| 1,3-Dichlorobenzene | 2500 | 2060 | | ug/Kg | | 82 | 80 - 120 |
| 1,4-Dichlorobenzene | 2500 | 2070 | | ug/Kg | | 83 | 80 - 120 |
| 2-Butanone (MEK) | 12500 | 12800 | | ug/Kg | | 102 | 54 - 149 |
| 2-Hexanone | 12500 | 11800 | | ug/Kg | | 94 | 59 - 127 |
| 4-Isopropyltoluene | 2500 | 2110 | | ug/Kg | | 84 | 80 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 12500 | 10900 | | ug/Kg | | 87 | 74 - 120 |
| Acetone | 12500 | 15400 | | ug/Kg | | 123 | 47 - 141 |
| Benzene | 2500 | 2080 | | ug/Kg | | 83 | 77 - 125 |
| Bromodichloromethane | 2500 | 2250 | | ug/Kg | | 90 | 71 - 121 |
| Bromoform | 2500 | 2310 | | ug/Kg | | 92 | 48 - 125 |
| Bromomethane | 2500 | 1980 | | ug/Kg | | 79 | 39 - 149 |
| Carbon disulfide | 2500 | 1760 | | ug/Kg | | 70 | 40 - 136 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-451417/1-A**
**Matrix: Solid**
**Analysis Batch: 451531**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 451417**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 2500 | 2180 | | ug/Kg | | 87 | 54 - 135 |
| Chlorobenzene | 2500 | 2100 | | ug/Kg | | 84 | 76 - 126 |
| Chloroethane | 2500 | 2300 | | ug/Kg | | 92 | 23 - 150 |
| Chloroform | 2500 | 2190 | | ug/Kg | | 88 | 78 - 120 |
| Chloromethane | 2500 | 2140 | | ug/Kg | | 86 | 61 - 124 |
| cis-1,2-Dichloroethene | 2500 | 2050 | | ug/Kg | | 82 | 79 - 124 |
| cis-1,3-Dichloropropene | 2500 | 2240 | | ug/Kg | | 89 | 75 - 121 |
| Cyclohexane | 2500 | 2100 | | ug/Kg | | 84 | 49 - 129 |
| Dibromochloromethane | 2500 | 2340 | | ug/Kg | | 94 | 64 - 120 |
| Dichlorodifluoromethane | 2500 | 2220 | | ug/Kg | | 89 | 10 - 150 |
| Ethylbenzene | 2500 | 2060 | | ug/Kg | | 82 | 78 - 124 |
| Isopropylbenzene | 2500 | 2000 | | ug/Kg | | 80 | 76 - 120 |
| m,p-Xylene | 2500 | 2170 | | ug/Kg | | 87 | 77 - 125 |
| Methyl acetate | 5000 | 4460 | | ug/Kg | | 89 | 71 - 123 |
| Methyl tert-butyl ether | 2500 | 2110 | | ug/Kg | | 85 | 67 - 137 |
| Methylcyclohexane | 2500 | 2240 | | ug/Kg | | 90 | 50 - 130 |
| Methylene Chloride | 2500 | 2060 | | ug/Kg | | 82 | 75 - 118 |
| n-Butylbenzene | 2500 | 2150 | | ug/Kg | | 86 | 80 - 120 |
| N-Propylbenzene | 2500 | 1980 | | ug/Kg | | 79 | 76 - 120 |
| o-Xylene | 2500 | 2090 | | ug/Kg | | 84 | 80 - 124 |
| sec-Butylbenzene | 2500 | 2050 | | ug/Kg | | 82 | 79 - 120 |
| Styrene | 2500 | 2150 | | ug/Kg | | 86 | 80 - 120 |
| tert-Butylbenzene | 2500 | 2070 | | ug/Kg | | 83 | 78 - 120 |
| Tetrachloroethene | 2500 | 2140 | | ug/Kg | | 86 | 73 - 133 |
| Toluene | 2500 | 2030 | | ug/Kg | | 81 | 75 - 124 |
| trans-1,2-Dichloroethene | 2500 | 1970 | | ug/Kg | | 79 | 74 - 129 |
| trans-1,3-Dichloropropene | 2500 | 2180 | | ug/Kg | | 87 | 73 - 120 |
| Trichloroethene | 2500 | 2080 | | ug/Kg | | 83 | 75 - 131 |
| Trichlorofluoromethane | 2500 | 2320 | | ug/Kg | | 93 | 29 - 158 |
| Vinyl chloride | 2500 | 2220 | | ug/Kg | | 89 | 59 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *53 - 146* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *49 - 148* |
| *Dibromofluoromethane (Surr)* | *96* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *95* | | *50 - 149* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-451729/1-A**
**Matrix: Solid**
**Analysis Batch: 452136**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 451729**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 170 | 25 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Acenaphthylene | ND | | 170 | 22 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Anthracene | ND | | 170 | 42 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Benzo[a]anthracene | ND | | 170 | 17 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-451729/1-A**
**Matrix: Solid**
**Analysis Batch: 452136**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 451729**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | ND | | 170 | 25 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Benzo[b]fluoranthene | ND | | 170 | 27 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Benzo[g,h,i]perylene | ND | | 170 | 18 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Benzo[k]fluoranthene | ND | | 170 | 22 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Chrysene | ND | | 170 | 38 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Dibenz(a,h)anthracene | ND | | 170 | 30 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Fluoranthene | ND | | 170 | 18 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Fluorene | ND | | 170 | 20 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 170 | 21 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Naphthalene | ND | | 170 | 22 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Phenanthrene | ND | | 170 | 25 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |
| Pyrene | ND | | 170 | 20 | ug/Kg | | 12/19/18 14:32 | 12/21/18 15:19 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *92* | | *60 - 120* | *12/19/18 14:32* | *12/21/18 15:19* | *1* |
| *Nitrobenzene-d5 (Surr)* | *95* | | *53 - 120* | *12/19/18 14:32* | *12/21/18 15:19* | *1* |
| *p-Terphenyl-d14 (Surr)* | *103* | | *65 - 121* | *12/19/18 14:32* | *12/21/18 15:19* | *1* |

**Lab Sample ID: LCS 480-451729/2-A**
**Matrix: Solid**
**Analysis Batch: 452136**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 451729**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1660 | 1570 | | ug/Kg | | 94 | 62 - 120 |
| Acenaphthylene | 1660 | 1630 | | ug/Kg | | 98 | 58 - 121 |
| Anthracene | 1660 | 1700 | | ug/Kg | | 102 | 62 - 120 |
| Benzo[a]anthracene | 1660 | 1740 | | ug/Kg | | 104 | 65 - 120 |
| Benzo[a]pyrene | 1660 | 1650 | | ug/Kg | | 99 | 64 - 120 |
| Benzo[b]fluoranthene | 1660 | 1620 | | ug/Kg | | 97 | 64 - 120 |
| Benzo[g,h,i]perylene | 1660 | 1630 | | ug/Kg | | 98 | 45 - 145 |
| Benzo[k]fluoranthene | 1660 | 1780 | | ug/Kg | | 107 | 65 - 120 |
| Chrysene | 1660 | 1720 | | ug/Kg | | 103 | 64 - 120 |
| Dibenz(a,h)anthracene | 1660 | 1660 | | ug/Kg | | 100 | 54 - 132 |
| Fluoranthene | 1660 | 1780 | | ug/Kg | | 107 | 62 - 120 |
| Fluorene | 1660 | 1690 | | ug/Kg | | 101 | 63 - 120 |
| Indeno[1,2,3-cd]pyrene | 1660 | 1660 | | ug/Kg | | 100 | 56 - 134 |
| Naphthalene | 1660 | 1420 | | ug/Kg | | 85 | 55 - 120 |
| Phenanthrene | 1660 | 1710 | | ug/Kg | | 103 | 60 - 120 |
| Pyrene | 1660 | 1780 | | ug/Kg | | 107 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *97* | | *60 - 120* |
| *Nitrobenzene-d5 (Surr)* | *96* | | *53 - 120* |
| *p-Terphenyl-d14 (Surr)* | *111* | | *65 - 121* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-451427/1-A**
**Matrix: Solid**
**Analysis Batch: 451816**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 451427**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 2.0 | | mg/Kg | | 12/19/18 08:00 | 12/20/18 01:21 | 1 |
| Barium | ND | | 0.49 | | mg/Kg | | 12/19/18 08:00 | 12/20/18 01:21 | 1 |
| Cadmium | ND | | 0.20 | | mg/Kg | | 12/19/18 08:00 | 12/20/18 01:21 | 1 |
| Chromium | ND | | 0.49 | | mg/Kg | | 12/19/18 08:00 | 12/20/18 01:21 | 1 |
| Lead | ND | | 0.99 | | mg/Kg | | 12/19/18 08:00 | 12/20/18 01:21 | 1 |
| Selenium | ND | | 3.9 | | mg/Kg | | 12/19/18 08:00 | 12/20/18 01:21 | 1 |
| Silver | ND | | 0.59 | | mg/Kg | | 12/19/18 08:00 | 12/20/18 01:21 | 1 |

**Lab Sample ID: LCSSRM 480-451427/2-A**
**Matrix: Solid**
**Analysis Batch: 451816**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 451427**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 171 | 158.1 | | mg/Kg | | 92.4 | 66.1 - 122.2 |
| Barium | 272 | 246.6 | | mg/Kg | | 90.7 | 71.7 - 119.5 |
| Cadmium | 225 | 200.4 | | mg/Kg | | 89.1 | 70.2 - 117.3 |
| Chromium | 144 | 129.6 | | mg/Kg | | 90.0 | 66.1 - 122.9 |
| Lead | 111 | 110.7 | | mg/Kg | | 99.8 | 71.0 - 128.8 |
| Selenium | 206 | 179.9 | | mg/Kg | | 87.3 | 63.6 - 122.3 |
| Silver | 45.5 | 42.75 | | mg/Kg | | 94.0 | 66.2 - 124.2 |

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 480-451970/1-A**
**Matrix: Solid**
**Analysis Batch: 452187**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 451970**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.019 | | mg/Kg | | 12/21/18 11:10 | 12/21/18 15:27 | 1 |

**Lab Sample ID: LCSSRM 480-451970/2-A ^10**
**Matrix: Solid**
**Analysis Batch: 452187**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 451970**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 12.0 | 10.26 | | mg/Kg | | 85.5 | 57.3 - 133.3 |

## GC/MS VOA

### Prep Batch: 451417

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-1 | TP-1 (6-7') | Total/NA | Solid | 5035A_H | |
| MB 480-451417/2-A | Method Blank | Total/NA | Solid | 5035A_H | |
| LCS 480-451417/1-A | Lab Control Sample | Total/NA | Solid | 5035A_H | |

### Analysis Batch: 451531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-1 | TP-1 (6-7') | Total/NA | Solid | 8260C | 451417 |
| MB 480-451417/2-A | Method Blank | Total/NA | Solid | 8260C | 451417 |
| LCS 480-451417/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 451417 |

## GC/MS Semi VOA

### Prep Batch: 451729

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-2 | TP-2 (0-1') | Total/NA | Solid | 3550C | |
| 480-146928-3 | TP-3 (2-3') | Total/NA | Solid | 3550C | |
| 480-146928-4 | TP-6 (4-5') | Total/NA | Solid | 3550C | |
| MB 480-451729/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 480-451729/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |

### Analysis Batch: 452136

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-2 | TP-2 (0-1') | Total/NA | Solid | 8270D | 451729 |
| 480-146928-3 | TP-3 (2-3') | Total/NA | Solid | 8270D | 451729 |
| 480-146928-4 | TP-6 (4-5') | Total/NA | Solid | 8270D | 451729 |
| MB 480-451729/1-A | Method Blank | Total/NA | Solid | 8270D | 451729 |
| LCS 480-451729/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 451729 |

## Metals

### Prep Batch: 451427

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-2 | TP-2 (0-1') | Total/NA | Solid | 3050B | |
| 480-146928-3 | TP-3 (2-3') | Total/NA | Solid | 3050B | |
| 480-146928-4 | TP-6 (4-5') | Total/NA | Solid | 3050B | |
| MB 480-451427/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCSSRM 480-451427/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |

### Analysis Batch: 451816

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-2 | TP-2 (0-1') | Total/NA | Solid | 6010C | 451427 |
| 480-146928-3 | TP-3 (2-3') | Total/NA | Solid | 6010C | 451427 |
| 480-146928-4 | TP-6 (4-5') | Total/NA | Solid | 6010C | 451427 |
| MB 480-451427/1-A | Method Blank | Total/NA | Solid | 6010C | 451427 |
| LCSSRM 480-451427/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 451427 |

### Prep Batch: 451970

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-2 | TP-2 (0-1') | Total/NA | Solid | 7471B | |
| 480-146928-3 | TP-3 (2-3') | Total/NA | Solid | 7471B | |

## Metals (Continued)

### Prep Batch: 451970 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-4 | TP-6 (4-5') | Total/NA | Solid | 7471B | |
| MB 480-451970/1-A | Method Blank | Total/NA | Solid | 7471B | |
| LCSSRM 480-451970/2-A ^10 | Lab Control Sample | Total/NA | Solid | 7471B | |

### Analysis Batch: 452187

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-2 | TP-2 (0-1') | Total/NA | Solid | 7471B | 451970 |
| 480-146928-3 | TP-3 (2-3') | Total/NA | Solid | 7471B | 451970 |
| 480-146928-4 | TP-6 (4-5') | Total/NA | Solid | 7471B | 451970 |
| MB 480-451970/1-A | Method Blank | Total/NA | Solid | 7471B | 451970 |
| LCSSRM 480-451970/2-A ^10 | Lab Control Sample | Total/NA | Solid | 7471B | 451970 |

## General Chemistry

### Analysis Batch: 451371

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-146928-1 | TP-1 (6-7') | Total/NA | Solid | Moisture | |
| 480-146928-2 | TP-2 (0-1') | Total/NA | Solid | Moisture | |
| 480-146928-3 | TP-3 (2-3') | Total/NA | Solid | Moisture | |
| 480-146928-4 | TP-6 (4-5') | Total/NA | Solid | Moisture | |

**Client Sample ID: TP-1 (6-7')** — **Lab Sample ID: 480-146928-1**
**Date Collected: 12/14/18 08:00** — **Matrix: Solid**
**Date Received: 12/17/18 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 451371 | 12/18/18 09:47 | KPK | TAL BUF |

**Client Sample ID: TP-1 (6-7')** — **Lab Sample ID: 480-146928-1**
**Date Collected: 12/14/18 08:00** — **Matrix: Solid**
**Date Received: 12/17/18 11:40** — **Percent Solids: 60.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_H | | | 451417 | 12/18/18 12:31 | OMI | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 451531 | 12/19/18 02:53 | AMM | TAL BUF |

**Client Sample ID: TP-2 (0-1')** — **Lab Sample ID: 480-146928-2**
**Date Collected: 12/14/18 10:00** — **Matrix: Solid**
**Date Received: 12/17/18 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 451371 | 12/18/18 09:47 | KPK | TAL BUF |

**Client Sample ID: TP-2 (0-1')** — **Lab Sample ID: 480-146928-2**
**Date Collected: 12/14/18 10:00** — **Matrix: Solid**
**Date Received: 12/17/18 11:40** — **Percent Solids: 72.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 451729 | 12/19/18 14:32 | SGD | TAL BUF |
| Total/NA | Analysis | 8270D | | 1 | 452136 | 12/21/18 21:53 | PJQ | TAL BUF |
| Total/NA | Prep | 3050B | | | 451427 | 12/19/18 08:00 | JMP | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 451816 | 12/20/18 02:27 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 451970 | 12/21/18 11:10 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 452187 | 12/21/18 15:40 | BMB | TAL BUF |

**Client Sample ID: TP-3 (2-3')** — **Lab Sample ID: 480-146928-3**
**Date Collected: 12/14/18 10:30** — **Matrix: Solid**
**Date Received: 12/17/18 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 451371 | 12/18/18 09:51 | KPK | TAL BUF |

**Client Sample ID: TP-3 (2-3')** — **Lab Sample ID: 480-146928-3**
**Date Collected: 12/14/18 10:30** — **Matrix: Solid**
**Date Received: 12/17/18 11:40** — **Percent Solids: 73.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 451729 | 12/19/18 14:32 | SGD | TAL BUF |

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

## Client Sample ID: TP-3 (2-3')

**Lab Sample ID: 480-146928-3**

**Date Collected: 12/14/18 10:30**
**Matrix: Solid**
**Date Received: 12/17/18 11:40**
**Percent Solids: 73.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8270D | | 1 | 452136 | 12/21/18 22:22 | PJQ | TAL BUF |
| Total/NA | Prep | 3050B | | | 451427 | 12/19/18 08:00 | JMP | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 451816 | 12/20/18 02:31 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 451970 | 12/21/18 11:10 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 452187 | 12/21/18 15:41 | BMB | TAL BUF |

## Client Sample ID: TP-6 (4-5')

**Lab Sample ID: 480-146928-4**

**Date Collected: 12/14/18 12:00**
**Matrix: Solid**
**Date Received: 12/17/18 11:40**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 451371 | 12/18/18 09:54 | KPK | TAL BUF |

## Client Sample ID: TP-6 (4-5')

**Lab Sample ID: 480-146928-4**

**Date Collected: 12/14/18 12:00**
**Matrix: Solid**
**Date Received: 12/17/18 11:40**
**Percent Solids: 71.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 451729 | 12/19/18 14:32 | SGD | TAL BUF |
| Total/NA | Analysis | 8270D | | 50 | 452136 | 12/21/18 22:51 | PJQ | TAL BUF |
| Total/NA | Prep | 3050B | | | 451427 | 12/19/18 08:00 | JMP | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 451816 | 12/20/18 02:46 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 451970 | 12/21/18 11:10 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 452187 | 12/21/18 15:42 | BMB | TAL BUF |

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
TestAmerica Job ID: 480-146928-1
Project/Site: Benchmark - 1200 Jefferson St

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-19 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

# Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL BUF |
| 6010C | Metals (ICP) | SW846 | TAL BUF |
| 7471B | Mercury (CVAA) | SW846 | TAL BUF |
| Moisture | Fine Moisture | EPA | TAL BUF |
| Moisture | Percent Moisture | EPA | TAL BUF |
| 3050B | Preparation, Metals | SW846 | TAL BUF |
| 3550C | Ultrasonic Extraction | SW846 | TAL BUF |
| 5035A_H | Closed System Purge and Trap | SW846 | TAL BUF |
| 7471B | Preparation, Mercury | SW846 | TAL BUF |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-146928-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-146928-1 | TP-1 (6-7') | Solid | 12/14/18 08:00 | 12/17/18 11:40 |
| 480-146928-2 | TP-2 (0-1') | Solid | 12/14/18 10:00 | 12/17/18 11:40 |
| 480-146928-3 | TP-3 (2-3') | Solid | 12/14/18 10:30 | 12/17/18 11:40 |
| 480-146928-4 | TP-6 (4-5') | Solid | 12/14/18 12:00 | 12/17/18 11:40 |

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

# Chain of Custody Record 306182

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

| Client Contact | Project Manager: Nate Munley | Site Contact: Nick Sulow | Date: | COC No: |
|---|---|---|---|---|
| Company Name: Turner Env. Restoration | Tel/Fax: 716-713-3437 | Lab Contact: Brian Fisher | Carrier: | ____ of ____ COCs |
| Address: 2558 Hamburg Tpke | Analysis Turnaround Time | | | Sampler: |
| City/State/Zip: Buffalo, NY 14218 | ☐ CALENDAR DAYS ☐ WORKING DAYS | | | For Lab Use Only: |
| Phone: 716-713-3437 | TAT if different from Below ____ | | | Walk-in Client: |
| Fax: | ☐ 2 weeks | | | Lab Sampling: |
| Project Name: 1200 Jefferson Site | ☐ 1 week | | | Job / SDG No.: |
| Site: | ☐ 2 days | | | |
| PO# B0239-018-001 | ☐ 1 day | | | 480-146928 COC |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS / MSD (Y/N) | TCL TCP-SI VOC's | PAH's | RCRA Metals | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TP-1 (6-7') | 12/14/18 | 8:00 | G | Soil | 1 | | | X | | | |
| TP-2 (0-1') | | 10:00 | G | | 2 | | | | X | X | |
| TP-3 (2-3') | | 10:30 | G | | 1 | | | | X | X | |
| TP-6 (4-5') | | 12:00 | G | | 1 | | | | X | X | |

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____ | | | 1 | 1 | 1 |

**Possible Hazard Identification:**
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 3.0 Corr'd: ____ Therm ID No.: 3

| | Company | Date/Time | | Company | Date/Time |
|---|---|---|---|---|---|
| Relinquished by: | BMTL | 12/14/18 1314 | Received by: | TAL | 12/17/18 09:00 |
| Relinquished by: | TAL | 12/17/18 11:40 | Received by: | TAL | 12/17/18 1140 |
| Relinquished by: | | | Received in Laboratory by: | | |

# Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-146928-1

**Login Number: 146928**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Kinecki, Kenneth P**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | Benchmark |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-147084-1
Client Project/Site: Benchmark - 1200 Jefferson St

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Nate Munley

Joseph V. Giacomazza

*Authorized for release by:*
*1/8/2019 10:46:03 AM*
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147084-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 480-147084-1

### Laboratory: TestAmerica Buffalo

**Narrative**

**Job Narrative**
**480-147084-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 12/20/2018 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8º C.

**GC/MS Semi VOA**
Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-452127 and analytical batch 480-452354 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB-26 (.5-2") (480-147084-1), (480-147084-A-1-A MS) and (480-147084-A-1-B MSD). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Metals**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147084-1

## Client Sample ID: SB-26 (.5-2')

## Lab Sample ID: 480-147084-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 170 | J | 220 | 32 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Anthracene | 370 | | 220 | 55 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]anthracene | 860 | | 220 | 22 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 690 | | 220 | 32 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 1000 | | 220 | 35 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 550 | | 220 | 23 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 430 | | 220 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 820 | | 220 | 49 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 2100 | F1 | 220 | 23 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluorene | 190 | J | 220 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 510 | | 220 | 27 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Naphthalene | 37 | J | 220 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 1900 | F1 | 220 | 32 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 1600 | F1 | 220 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 15.8 | | 2.6 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 186 | | 0.66 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 1.7 | | 0.26 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 40.6 | | 0.66 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 86.8 | | 1.3 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.51 | | 0.027 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: SB-27 (.5-2')

## Lab Sample ID: 480-147084-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 33 | J | 220 | 33 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Anthracene | 110 | J | 220 | 55 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]anthracene | 300 | | 220 | 22 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 280 | | 220 | 33 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 370 | | 220 | 35 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 200 | J | 220 | 24 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 130 | J | 220 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 290 | | 220 | 50 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 540 | | 220 | 24 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluorene | 32 | J | 220 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 190 | J | 220 | 28 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Naphthalene | 30 | J | 220 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 400 | | 220 | 33 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 440 | | 220 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 3.7 | | 2.7 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 93.8 | | 0.66 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 30.6 | | 0.66 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 20.7 | | 1.3 | | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.33 | | 0.025 | | mg/Kg | 1 | ☼ | 7471B | Total/NA |

This Detection Summary does not include radiochemical test results.

**Client Sample ID: SB-26 (.5-2')**
**Date Collected: 12/18/18 12:00**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147084-1**
**Matrix: Solid**
**Percent Solids: 76.4**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 170 | J | 220 | 32 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Acenaphthylene | ND | | 220 | 29 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Anthracene | 370 | | 220 | 55 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Benzo[a]anthracene | 860 | | 220 | 22 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Benzo[a]pyrene | 690 | | 220 | 32 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Benzo[b]fluoranthene | 1000 | | 220 | 35 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Benzo[g,h,i]perylene | 550 | | 220 | 23 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Benzo[k]fluoranthene | 430 | | 220 | 29 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Chrysene | 820 | | 220 | 49 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Dibenz(a,h)anthracene | ND | | 220 | 39 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Fluoranthene | 2100 | F1 | 220 | 23 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Fluorene | 190 | J | 220 | 26 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Indeno[1,2,3-cd]pyrene | 510 | | 220 | 27 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Naphthalene | 37 | J | 220 | 29 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Phenanthrene | 1900 | F1 | 220 | 32 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |
| Pyrene | 1600 | F1 | 220 | 26 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 16:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *87* | | *60 - 120* | *12/21/18 12:13* | *12/24/18 16:00* | *1* |
| *Nitrobenzene-d5 (Surr)* | *85* | | *53 - 120* | *12/21/18 12:13* | *12/24/18 16:00* | *1* |
| *p-Terphenyl-d14 (Surr)* | *106* | | *65 - 121* | *12/21/18 12:13* | *12/24/18 16:00* | *1* |

## Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 15.8 | | 2.6 | | mg/Kg | ☼ | 12/29/18 06:49 | 01/02/19 09:49 | 1 |
| Barium | 186 | | 0.66 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:44 | 1 |
| Cadmium | 1.7 | | 0.26 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:44 | 1 |
| Chromium | 40.6 | | 0.66 | | mg/Kg | ☼ | 12/29/18 06:49 | 01/02/19 09:49 | 1 |
| Lead | 86.8 | | 1.3 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:44 | 1 |
| Selenium | ND | | 5.3 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:44 | 1 |
| Silver | ND | | 0.79 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:44 | 1 |

## Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.51 | | 0.027 | | mg/Kg | ☼ | 12/26/18 11:40 | 12/26/18 14:24 | 1 |

## Client Sample ID: SB-27 (.5-2')

**Date Collected: 12/18/18 13:00**
**Date Received: 12/20/18 11:30**

## Lab Sample ID: 480-147084-2

**Matrix: Solid**
**Percent Solids: 75.1**

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **33** | **J** | 220 | 33 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| Acenaphthylene | ND | | 220 | 29 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Anthracene** | **110** | **J** | 220 | 55 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Benzo[a]anthracene** | **300** | | 220 | 22 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Benzo[a]pyrene** | **280** | | 220 | 33 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Benzo[b]fluoranthene** | **370** | | 220 | 35 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Benzo[g,h,i]perylene** | **200** | **J** | 220 | 24 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Benzo[k]fluoranthene** | **130** | **J** | 220 | 29 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Chrysene** | **290** | | 220 | 50 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| Dibenz(a,h)anthracene | ND | | 220 | 39 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Fluoranthene** | **540** | | 220 | 24 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Fluorene** | **32** | **J** | 220 | 26 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **190** | **J** | 220 | 28 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Naphthalene** | **30** | **J** | 220 | 29 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Phenanthrene** | **400** | | 220 | 33 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |
| **Pyrene** | **440** | | 220 | 26 | ug/Kg | ☼ | 12/21/18 12:13 | 12/24/18 17:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *84* | | *60 - 120* | *12/21/18 12:13* | *12/24/18 17:15* | *1* |
| *Nitrobenzene-d5 (Surr)* | *80* | | *53 - 120* | *12/21/18 12:13* | *12/24/18 17:15* | *1* |
| *p-Terphenyl-d14 (Surr)* | *105* | | *65 - 121* | *12/21/18 12:13* | *12/24/18 17:15* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.7** | | 2.7 | | mg/Kg | ☼ | 12/29/18 06:49 | 01/02/19 09:53 | 1 |
| **Barium** | **93.8** | | 0.66 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:47 | 1 |
| Cadmium | ND | | 0.27 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:47 | 1 |
| **Chromium** | **30.6** | | 0.66 | | mg/Kg | ☼ | 12/29/18 06:49 | 01/02/19 09:53 | 1 |
| **Lead** | **20.7** | | 1.3 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:47 | 1 |
| Selenium | ND | | 5.3 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:47 | 1 |
| Silver | ND | | 0.80 | | mg/Kg | ☼ | 12/29/18 06:49 | 12/31/18 20:47 | 1 |

### Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.33** | | 0.025 | | mg/Kg | ☼ | 12/26/18 11:40 | 12/26/18 14:29 | 1 |

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147084-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | FBP | NBZ | TPHd14 |
| Lab Sample ID | Client Sample ID | (60-120) | (53-120) | (65-121) |
| 480-147084-1 | SB-26 (.5-2') | 87 | 85 | 106 |
| 480-147084-1 MS | SB-26 (.5-2') | 85 | 82 | 102 |
| 480-147084-1 MSD | SB-26 (.5-2') | 85 | 77 | 103 |
| 480-147084-2 | SB-27 (.5-2') | 84 | 80 | 105 |
| LCS 480-452127/2-A | Lab Control Sample | 82 | 78 | 101 |
| MB 480-452127/1-A | Method Blank | 83 | 81 | 97 |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-452127/1-A**
**Matrix: Solid**
**Analysis Batch: 452354**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 452127**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 170 | 25 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Acenaphthylene | ND | | 170 | 22 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Anthracene | ND | | 170 | 42 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Benzo[a]anthracene | ND | | 170 | 17 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Benzo[a]pyrene | ND | | 170 | 25 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Benzo[b]fluoranthene | ND | | 170 | 27 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Benzo[g,h,i]perylene | ND | | 170 | 18 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Benzo[k]fluoranthene | ND | | 170 | 22 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Chrysene | ND | | 170 | 38 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Dibenz(a,h)anthracene | ND | | 170 | 30 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Fluoranthene | ND | | 170 | 18 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Fluorene | ND | | 170 | 20 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 170 | 21 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Naphthalene | ND | | 170 | 22 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Phenanthrene | ND | | 170 | 25 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |
| Pyrene | ND | | 170 | 20 | ug/Kg | | 12/21/18 12:13 | 12/24/18 14:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *83* | | *60 - 120* | *12/21/18 12:13* | *12/24/18 14:20* | *1* |
| *Nitrobenzene-d5 (Surr)* | *81* | | *53 - 120* | *12/21/18 12:13* | *12/24/18 14:20* | *1* |
| *p-Terphenyl-d14 (Surr)* | *97* | | *65 - 121* | *12/21/18 12:13* | *12/24/18 14:20* | *1* |

**Lab Sample ID: LCS 480-452127/2-A**
**Matrix: Solid**
**Analysis Batch: 452354**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452127**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1620 | 1370 | | ug/Kg | | 85 | 62 - 120 |
| Acenaphthylene | 1620 | 1380 | | ug/Kg | | 85 | 58 - 121 |
| Anthracene | 1620 | 1550 | | ug/Kg | | 96 | 62 - 120 |
| Benzo[a]anthracene | 1620 | 1550 | | ug/Kg | | 96 | 65 - 120 |
| Benzo[a]pyrene | 1620 | 1630 | | ug/Kg | | 101 | 64 - 120 |
| Benzo[b]fluoranthene | 1620 | 1590 | | ug/Kg | | 98 | 64 - 120 |
| Benzo[g,h,i]perylene | 1620 | 1730 | | ug/Kg | | 107 | 45 - 145 |
| Benzo[k]fluoranthene | 1620 | 1690 | | ug/Kg | | 105 | 65 - 120 |
| Chrysene | 1620 | 1540 | | ug/Kg | | 95 | 64 - 120 |
| Dibenz(a,h)anthracene | 1620 | 1740 | | ug/Kg | | 108 | 54 - 132 |
| Fluoranthene | 1620 | 1660 | | ug/Kg | | 103 | 62 - 120 |
| Fluorene | 1620 | 1460 | | ug/Kg | | 90 | 63 - 120 |
| Indeno[1,2,3-cd]pyrene | 1620 | 1750 | | ug/Kg | | 108 | 56 - 134 |
| Naphthalene | 1620 | 1240 | | ug/Kg | | 77 | 55 - 120 |
| Phenanthrene | 1620 | 1510 | | ug/Kg | | 94 | 60 - 120 |
| Pyrene | 1620 | 1490 | | ug/Kg | | 92 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *82* | | *60 - 120* |
| *Nitrobenzene-d5 (Surr)* | *78* | | *53 - 120* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-452127/2-A**
**Matrix: Solid**
**Analysis Batch: 452354**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452127**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *p-Terphenyl-d14 (Surr)* | *101* | | *65 - 121* |

**Lab Sample ID: 480-147084-1 MS**
**Matrix: Solid**
**Analysis Batch: 452354**

**Client Sample ID: SB-26 (.5-2')**
**Prep Type: Total/NA**
**Prep Batch: 452127**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 170 | J | 2140 | 2000 | | ug/Kg | ☼ | 85 | 60 - 120 |
| Acenaphthylene | ND | | 2140 | 1900 | | ug/Kg | ☼ | 89 | 58 - 121 |
| Anthracene | 370 | | 2140 | 2280 | | ug/Kg | ☼ | 89 | 62 - 120 |
| Benzo[a]anthracene | 860 | | 2140 | 2460 | | ug/Kg | ☼ | 75 | 65 - 120 |
| Benzo[a]pyrene | 690 | | 2140 | 2490 | | ug/Kg | ☼ | 84 | 64 - 120 |
| Benzo[b]fluoranthene | 1000 | | 2140 | 2720 | | ug/Kg | ☼ | 80 | 64 - 120 |
| Benzo[g,h,i]perylene | 550 | | 2140 | 2680 | | ug/Kg | ☼ | 99 | 45 - 145 |
| Benzo[k]fluoranthene | 430 | | 2140 | 2410 | | ug/Kg | ☼ | 93 | 65 - 120 |
| Chrysene | 820 | | 2140 | 2500 | | ug/Kg | ☼ | 79 | 64 - 120 |
| Dibenz(a,h)anthracene | ND | | 2140 | 2490 | | ug/Kg | ☼ | 116 | 54 - 132 |
| Fluoranthene | 2100 | F1 | 2140 | 3130 | F1 | ug/Kg | ☼ | 47 | 62 - 120 |
| Fluorene | 190 | J | 2140 | 2100 | | ug/Kg | ☼ | 89 | 63 - 120 |
| Indeno[1,2,3-cd]pyrene | 510 | | 2140 | 2600 | | ug/Kg | ☼ | 98 | 56 - 134 |
| Naphthalene | 37 | J | 2140 | 1750 | | ug/Kg | ☼ | 80 | 46 - 120 |
| Phenanthrene | 1900 | F1 | 2140 | 2880 | F1 | ug/Kg | ☼ | 48 | 60 - 122 |
| Pyrene | 1600 | F1 | 2140 | 2790 | F1 | ug/Kg | ☼ | 54 | 61 - 133 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *60 - 120* |
| *Nitrobenzene-d5 (Surr)* | *82* | | *53 - 120* |
| *p-Terphenyl-d14 (Surr)* | *102* | | *65 - 121* |

**Lab Sample ID: 480-147084-1 MSD**
**Matrix: Solid**
**Analysis Batch: 452354**

**Client Sample ID: SB-26 (.5-2')**
**Prep Type: Total/NA**
**Prep Batch: 452127**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 170 | J | 2180 | 1990 | | ug/Kg | ☼ | 84 | 60 - 120 | 0 | 35 |
| Acenaphthylene | ND | | 2180 | 1920 | | ug/Kg | ☼ | 88 | 58 - 121 | 1 | 18 |
| Anthracene | 370 | | 2180 | 2210 | | ug/Kg | ☼ | 85 | 62 - 120 | 3 | 15 |
| Benzo[a]anthracene | 860 | | 2180 | 2460 | | ug/Kg | ☼ | 73 | 65 - 120 | 0 | 15 |
| Benzo[a]pyrene | 690 | | 2180 | 2420 | | ug/Kg | ☼ | 79 | 64 - 120 | 3 | 15 |
| Benzo[b]fluoranthene | 1000 | | 2180 | 2720 | | ug/Kg | ☼ | 79 | 64 - 120 | 0 | 15 |
| Benzo[g,h,i]perylene | 550 | | 2180 | 2740 | | ug/Kg | ☼ | 101 | 45 - 145 | 3 | 15 |
| Benzo[k]fluoranthene | 430 | | 2180 | 2160 | | ug/Kg | ☼ | 79 | 65 - 120 | 11 | 22 |
| Chrysene | 820 | | 2180 | 2480 | | ug/Kg | ☼ | 76 | 64 - 120 | 1 | 15 |
| Dibenz(a,h)anthracene | ND | | 2180 | 2570 | | ug/Kg | ☼ | 118 | 54 - 132 | 3 | 15 |
| Fluoranthene | 2100 | F1 | 2180 | 2900 | F1 | ug/Kg | ☼ | 36 | 62 - 120 | 8 | 15 |
| Fluorene | 190 | J | 2180 | 2190 | | ug/Kg | ☼ | 92 | 63 - 120 | 4 | 15 |
| Indeno[1,2,3-cd]pyrene | 510 | | 2180 | 2600 | | ug/Kg | ☼ | 96 | 56 - 134 | 0 | 15 |
| Naphthalene | 37 | J | 2180 | 1700 | | ug/Kg | ☼ | 76 | 46 - 120 | 3 | 29 |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-147084-1 MSD**
**Matrix: Solid**
**Analysis Batch: 452354**

**Client Sample ID: SB-26 (.5-2')**
**Prep Type: Total/NA**
**Prep Batch: 452127**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | 1900 | F1 | 2180 | 2630 | F1 | ug/Kg | ☼ | 35 | 60 - 122 | 9 | 15 |
| Pyrene | 1600 | F1 | 2180 | 2640 | F1 | ug/Kg | ☼ | 46 | 61 - 133 | 6 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl* | *85* | | *60 - 120* |
| *Nitrobenzene-d5 (Surr)* | *77* | | *53 - 120* |
| *p-Terphenyl-d14 (Surr)* | *103* | | *65 - 121* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-452861/1-A**
**Matrix: Solid**
**Analysis Batch: 453268**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 452861**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 2.0 | | mg/Kg | | 12/29/18 06:49 | 12/31/18 18:58 | 1 |
| Barium | ND | | 0.50 | | mg/Kg | | 12/29/18 06:49 | 12/31/18 18:58 | 1 |
| Cadmium | ND | | 0.20 | | mg/Kg | | 12/29/18 06:49 | 12/31/18 18:58 | 1 |
| Chromium | ND | | 0.50 | | mg/Kg | | 12/29/18 06:49 | 12/31/18 18:58 | 1 |
| Lead | ND | | 1.0 | | mg/Kg | | 12/29/18 06:49 | 12/31/18 18:58 | 1 |
| Selenium | ND | | 4.0 | | mg/Kg | | 12/29/18 06:49 | 12/31/18 18:58 | 1 |
| Silver | ND | | 0.60 | | mg/Kg | | 12/29/18 06:49 | 12/31/18 18:58 | 1 |

**Lab Sample ID: LCSSRM 480-452861/2-A**
**Matrix: Solid**
**Analysis Batch: 453268**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452861**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 171 | 166.6 | | mg/Kg | | 97.4 | 66.1 - 122.2 |
| Barium | 272 | 217.6 | | mg/Kg | | 80.0 | 71.7 - 119.5 |
| Cadmium | 225 | 208.0 | | mg/Kg | | 92.4 | 70.2 - 117.3 |
| Chromium | 144 | 117.7 | | mg/Kg | | 81.7 | 66.1 - 122.9 |
| Lead | 111 | 112.9 | | mg/Kg | | 101.7 | 71.0 - 128.8 |
| Selenium | 206 | 172.6 | | mg/Kg | | 83.8 | 63.6 - 122.3 |
| Silver | 45.5 | 38.91 | | mg/Kg | | 85.5 | 66.2 - 124.2 |

# QC Sample Results

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147084-1

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 480-452497/1-A**
**Matrix: Solid**
**Analysis Batch: 452536**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 452497**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.019 | | mg/Kg | | 12/26/18 11:40 | 12/26/18 14:21 | 1 |

**Lab Sample ID: LCDSRM 480-452497/11-A ^10**
**Matrix: Solid**
**Analysis Batch: 452536**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 452497**

| Analyte | | | Spike Added | LCDSRM Result | LCDSRM Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | | 12.0 | 12.39 | | mg/Kg | | 103.3 | 57.3 - 133.3 | 11 | 20 |

**Lab Sample ID: LCSSRM 480-452497/2-A ^10**
**Matrix: Solid**
**Analysis Batch: 452536**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452497**

| Analyte | | | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | | | 12.0 | 11.09 | | mg/Kg | | 92.4 | 57.3 - 133.3 |

**Lab Sample ID: 480-147084-1 MS**
**Matrix: Solid**
**Analysis Batch: 452536**

**Client Sample ID: SB-26 (.5-2')**
**Prep Type: Total/NA**
**Prep Batch: 452497**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.51 | | 0.424 | 0.851 | | mg/Kg | ☼ | 81 | 80 - 120 |

**Lab Sample ID: 480-147084-1 MSD**
**Matrix: Solid**
**Analysis Batch: 452536**

**Client Sample ID: SB-26 (.5-2')**
**Prep Type: Total/NA**
**Prep Batch: 452497**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.51 | | 0.422 | 1.01 | | mg/Kg | ☼ | 119 | 80 - 120 | 17 | 20 |

## GC/MS Semi VOA

### Prep Batch: 452127

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Total/NA | Solid | 3550C | |
| 480-147084-2 | SB-27 (.5-2') | Total/NA | Solid | 3550C | |
| MB 480-452127/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 480-452127/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| 480-147084-1 MS | SB-26 (.5-2') | Total/NA | Solid | 3550C | |
| 480-147084-1 MSD | SB-26 (.5-2') | Total/NA | Solid | 3550C | |

### Analysis Batch: 452354

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Total/NA | Solid | 8270D | 452127 |
| 480-147084-2 | SB-27 (.5-2') | Total/NA | Solid | 8270D | 452127 |
| MB 480-452127/1-A | Method Blank | Total/NA | Solid | 8270D | 452127 |
| LCS 480-452127/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 452127 |
| 480-147084-1 MS | SB-26 (.5-2') | Total/NA | Solid | 8270D | 452127 |
| 480-147084-1 MSD | SB-26 (.5-2') | Total/NA | Solid | 8270D | 452127 |

## Metals

### Prep Batch: 452497

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Total/NA | Solid | 7471B | |
| 480-147084-2 | SB-27 (.5-2') | Total/NA | Solid | 7471B | |
| MB 480-452497/1-A | Method Blank | Total/NA | Solid | 7471B | |
| LCDSRM 480-452497/11-A ^ | Lab Control Sample Dup | Total/NA | Solid | 7471B | |
| LCSSRM 480-452497/2-A ^1 | Lab Control Sample | Total/NA | Solid | 7471B | |
| 480-147084-1 MS | SB-26 (.5-2') | Total/NA | Solid | 7471B | |
| 480-147084-1 MSD | SB-26 (.5-2') | Total/NA | Solid | 7471B | |

### Analysis Batch: 452536

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Total/NA | Solid | 7471B | 452497 |
| 480-147084-2 | SB-27 (.5-2') | Total/NA | Solid | 7471B | 452497 |
| MB 480-452497/1-A | Method Blank | Total/NA | Solid | 7471B | 452497 |
| LCDSRM 480-452497/11-A ^ | Lab Control Sample Dup | Total/NA | Solid | 7471B | 452497 |
| LCSSRM 480-452497/2-A ^1 | Lab Control Sample | Total/NA | Solid | 7471B | 452497 |
| 480-147084-1 MS | SB-26 (.5-2') | Total/NA | Solid | 7471B | 452497 |
| 480-147084-1 MSD | SB-26 (.5-2') | Total/NA | Solid | 7471B | 452497 |

### Prep Batch: 452861

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Total/NA | Solid | 3050B | |
| 480-147084-2 | SB-27 (.5-2') | Total/NA | Solid | 3050B | |
| MB 480-452861/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCSSRM 480-452861/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |

### Analysis Batch: 453268

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Total/NA | Solid | 6010C | 452861 |
| 480-147084-2 | SB-27 (.5-2') | Total/NA | Solid | 6010C | 452861 |
| MB 480-452861/1-A | Method Blank | Total/NA | Solid | 6010C | 452861 |

## Metals (Continued)

### Analysis Batch: 453268 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSSRM 480-452861/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 452861 |

### Analysis Batch: 453337

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Total/NA | Solid | 6010C | 452861 |
| 480-147084-2 | SB-27 (.5-2') | Total/NA | Solid | 6010C | 452861 |

## General Chemistry

### Analysis Batch: 452742

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Total/NA | Solid | Moisture | |
| 480-147084-2 | SB-27 (.5-2') | Total/NA | Solid | Moisture | |

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147084-1

## Client Sample ID: SB-26 (.5-2')
**Date Collected: 12/18/18 12:00**
**Date Received: 12/20/18 11:30**

## Lab Sample ID: 480-147084-1
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 452742 | 12/27/18 13:59 | KPK | TAL BUF |

## Client Sample ID: SB-26 (.5-2')
**Date Collected: 12/18/18 12:00**
**Date Received: 12/20/18 11:30**

## Lab Sample ID: 480-147084-1
**Matrix: Solid**
**Percent Solids: 76.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 452127 | 12/21/18 12:13 | SGD | TAL BUF |
| Total/NA | Analysis | 8270D | | 1 | 452354 | 12/24/18 16:00 | RJS | TAL BUF |
| Total/NA | Prep | 3050B | | | 452861 | 12/29/18 06:49 | VEG | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 453337 | 01/02/19 09:49 | AMH | TAL BUF |
| Total/NA | Prep | 3050B | | | 452861 | 12/29/18 06:49 | VEG | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 453268 | 12/31/18 20:44 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 452497 | 12/26/18 11:40 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 452536 | 12/26/18 14:24 | BMB | TAL BUF |

## Client Sample ID: SB-27 (.5-2')
**Date Collected: 12/18/18 13:00**
**Date Received: 12/20/18 11:30**

## Lab Sample ID: 480-147084-2
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 452742 | 12/27/18 13:59 | KPK | TAL BUF |

## Client Sample ID: SB-27 (.5-2')
**Date Collected: 12/18/18 13:00**
**Date Received: 12/20/18 11:30**

## Lab Sample ID: 480-147084-2
**Matrix: Solid**
**Percent Solids: 75.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 452127 | 12/21/18 12:13 | SGD | TAL BUF |
| Total/NA | Analysis | 8270D | | 1 | 452354 | 12/24/18 17:15 | RJS | TAL BUF |
| Total/NA | Prep | 3050B | | | 452861 | 12/29/18 06:49 | VEG | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 453337 | 01/02/19 09:53 | AMH | TAL BUF |
| Total/NA | Prep | 3050B | | | 452861 | 12/29/18 06:49 | VEG | TAL BUF |
| Total/NA | Analysis | 6010C | | 1 | 453268 | 12/31/18 20:47 | AMH | TAL BUF |
| Total/NA | Prep | 7471B | | | 452497 | 12/26/18 11:40 | BMB | TAL BUF |
| Total/NA | Analysis | 7471B | | 1 | 452536 | 12/26/18 14:29 | BMB | TAL BUF |

**Laboratory References:**
TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147084-1

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-19 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

# Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147084-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL BUF |
| 6010C | Metals (ICP) | SW846 | TAL BUF |
| 7471B | Mercury (CVAA) | SW846 | TAL BUF |
| Moisture | Percent Moisture | EPA | TAL BUF |
| 3050B | Preparation, Metals | SW846 | TAL BUF |
| 3550C | Ultrasonic Extraction | SW846 | TAL BUF |
| 7471B | Preparation, Mercury | SW846 | TAL BUF |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147084-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-147084-1 | SB-26 (.5-2') | Solid | 12/18/18 12:00 | 12/20/18 11:30 |
| 480-147084-2 | SB-27 (.5-2') | Solid | 12/18/18 13:00 | 12/20/18 11:30 |

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

# Chain of Custody Record 306181

TestAmerica THE LEADER ... TestAmerica Inc. (0713)

480-147084 COC

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

| Client Contact | Project Manager: Nate Manley | Site Contact: Nicole Surace | Date: 12/19/18 | COC No: |
|---|---|---|---|---|
| Company Name: Turnkey Env. Restoration | Tel/Fax: 716-713-2433 | Lab Contact: Brian Fischer | Carrier: | |
| Address: 2558 Hamburg Turnpike 1 | Analysis Turnaround Time | | | Sampler: |
| City/State/Zip: Buffalo, NY, 14218 | ☐ CALENDAR DAYS ☐ WORKING DAYS | | | For Lab Use Only: |
| Phone: 716-713-3937 | TAT if different from Below | | | Walk-in Client: |
| Fax: | ☐ 2 weeks | | | Lab Sampling: |
| Project Name: 1200 Jefferson Site | ☐ 1 week | | | |
| Site: | ☐ 2 days | | | Job / SDG No.: |
| PO# 0234-018-001 | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS / MSD (Y/N) | TCL+CP-51 VOC's | PAH's | RCRA Metals | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-26 (.5-2') | 12/18/18 | 12:00 | G | Soil | 1 | | | | X | X | |
| SB-27 (.5-2') | 12/18/18 | 13:00 | G | Soil | 1 | | | | X | X | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other | | | | | | | | 1 | 1 | | |

**Possible Hazard Identification:**
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.8 Corr'd: _____ | Therm ID No.: #1

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| | BMTK | 12/19/18 14:00 | | TAB | 12/20/18 09:30 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| | TAB | 12/20/18 11:30 | | TAB | 12/20/18 11:30 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |



1/8/2019

# Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-147084-1

**Login Number: 147084**
**List Number: 1**
**Creator: Stopa, Erik S**

**List Source: TestAmerica Buffalo**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | BMTK |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-147085-1
Client Project/Site: Benchmark - 1200 Jefferson St

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Nate Munley

*Authorized for release by:*
*12/27/2018 12:15:34 PM*

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 480-147085-1

### Laboratory: TestAmerica Buffalo

**Narrative**

**Job Narrative**
**480-147085-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 12/20/2018 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8º C.

**GC/MS VOA**
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-452238 recovered above the upper control limit for Trichlorofluoro0methane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TMW-3 (480-147085-3) and TMW-4 (480-147085-4).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: TMW-3 (480-147085-3) and TMW-4 (480-147085-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: TMW-3 (480-147085-3).

Method(s) 8260C: The surrogate 1,2-Dichloroethane-d4 (SURR) was outside the 20%D limits on the continuing calibration verification (CCV) but was within laboratory limits. The following samples are impacted: TMW-3 (480-147085-3) and TMW-4 (480-147085-4).

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-452238 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: Due to the high concentration of Tetrachloroethane, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-452238 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-25 (5-7) (480-147085-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: SB-29 (5-6) (480-147085-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: This analyte Trichloroethene was detected in sample SB-25 (5-7) (480-147085-1) at a concentration above the linear range of the initial calibration curve. Due to the high dilution dictated by other target compounds, Trichloroethene was diluted out in the re-analysis of the sample. Therefore, the value being reported is from the original analysis and is qualified as estimated with an E flag.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

## Client Sample ID: SB-25 (5-7) — Lab Sample ID: 480-147085-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 1.7 | J | 5.8 | 0.45 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| 1,4-Dichlorobenzene | 1.8 | J | 5.8 | 0.81 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Chloroform | 2.3 | J | 5.8 | 0.36 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 20 | | 5.8 | 0.74 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Isopropylbenzene | 6.1 | | 5.8 | 0.87 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| o-Xylene | 4.3 | J | 5.8 | 0.75 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| sec-Butylbenzene | 1.9 | J | 5.8 | 0.50 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 1.0 | J | 5.8 | 0.60 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Trichloroethene | 270 | E | 5.8 | 1.3 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Xylenes, Total | 4.3 | J | 12 | 0.97 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene - DL | 110000 | | 2600 | 350 | ug/Kg | 20 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-29 (5-6) — Lab Sample ID: 480-147085-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 0.41 | J | 5.9 | 0.37 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 17 | | 5.9 | 0.76 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 3.9 | J | 5.9 | 0.61 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene - DL | 7100 | | 130 | 18 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Trichloroethene - DL | 450 | | 130 | 36 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: TMW-3 — Lab Sample ID: 480-147085-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 9.3 | | 4.0 | 3.2 | ug/L | 4 | | 8260C | Total/NA |
| Tetrachloroethene | 280 | | 4.0 | 1.4 | ug/L | 4 | | 8260C | Total/NA |
| Trichloroethene | 36 | | 4.0 | 1.8 | ug/L | 4 | | 8260C | Total/NA |

## Client Sample ID: TMW-4 — Lab Sample ID: 480-147085-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 860 | F1 | 20 | 16 | ug/L | 20 | | 8260C | Total/NA |
| Tetrachloroethene | 1900 | F1 | 20 | 7.2 | ug/L | 20 | | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 34 | | 20 | 18 | ug/L | 20 | | 8260C | Total/NA |
| Trichloroethene | 130 | | 20 | 9.2 | ug/L | 20 | | 8260C | Total/NA |
| Vinyl chloride | 24 | | 20 | 18 | ug/L | 20 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Client Sample ID: SB-25 (5-7)**
**Date Collected: 12/18/18 11:00**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147085-1**
**Matrix: Solid**
**Percent Solids: 83.9**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.8 | 0.42 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.8 | 0.94 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.8 | 1.3 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.8 | 0.75 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,1-Dichloroethane | ND | | 5.8 | 0.70 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,1-Dichloroethene | ND | | 5.8 | 0.71 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.8 | 0.35 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.8 | 1.1 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.8 | 2.9 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,2-Dibromoethane | ND | | 5.8 | 0.74 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **1,2-Dichlorobenzene** | **1.7** | **J** | 5.8 | 0.45 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,2-Dichloroethane | ND | | 5.8 | 0.29 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,2-Dichloropropane | ND | | 5.8 | 2.9 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.8 | 0.37 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.8 | 0.30 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **1,4-Dichlorobenzene** | **1.8** | **J** | 5.8 | 0.81 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 2-Butanone (MEK) | ND | | 29 | 2.1 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 2-Hexanone | ND | | 29 | 2.9 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 4-Isopropyltoluene | ND | | 5.8 | 0.46 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 29 | 1.9 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Acetone | ND | | 29 | 4.9 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Benzene | ND | | 5.8 | 0.28 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Bromodichloromethane | ND | | 5.8 | 0.77 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Bromoform | ND | | 5.8 | 2.9 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Bromomethane | ND | | 5.8 | 0.52 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Carbon disulfide | ND | | 5.8 | 2.9 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Carbon tetrachloride | ND | | 5.8 | 0.56 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Chlorobenzene | ND | | 5.8 | 0.76 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Chloroethane | ND | | 5.8 | 1.3 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **Chloroform** | **2.3** | **J** | 5.8 | 0.36 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Chloromethane | ND | | 5.8 | 0.35 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **cis-1,2-Dichloroethene** | **20** | | 5.8 | 0.74 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.8 | 0.83 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Cyclohexane | ND | | 5.8 | 0.81 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Dibromochloromethane | ND | | 5.8 | 0.74 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Dichlorodifluoromethane | ND | | 5.8 | 0.48 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Ethylbenzene | ND | | 5.8 | 0.40 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **Isopropylbenzene** | **6.1** | | 5.8 | 0.87 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| m,p-Xylene | ND | | 12 | 0.97 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Methyl acetate | ND | | 29 | 3.5 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Methyl tert-butyl ether | ND | | 5.8 | 0.57 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Methylcyclohexane | ND | | 5.8 | 0.88 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Methylene Chloride | ND | | 5.8 | 2.7 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| n-Butylbenzene | ND | | 5.8 | 0.50 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| N-Propylbenzene | ND | | 5.8 | 0.46 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **o-Xylene** | **4.3** | **J** | 5.8 | 0.75 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **sec-Butylbenzene** | **1.9** | **J** | 5.8 | 0.50 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Styrene | ND | | 5.8 | 0.29 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| tert-Butylbenzene | ND | | 5.8 | 0.60 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Client Sample ID: SB-25 (5-7)**
**Date Collected: 12/18/18 11:00**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147085-1**
**Matrix: Solid**
**Percent Solids: 83.9**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 5.8 | 0.44 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **trans-1,2-Dichloroethene** | **1.0** | **J** | 5.8 | 0.60 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.8 | 2.5 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **Trichloroethene** | **270** | **E** | 5.8 | 1.3 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Trichlorofluoromethane | ND | | 5.8 | 0.55 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| Vinyl chloride | ND | | 5.8 | 0.70 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |
| **Xylenes, Total** | **4.3** | **J** | 12 | 0.97 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 14:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *111* | | *64 - 126* | *12/21/18 11:00* | *12/21/18 14:44* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *72 - 126* | *12/21/18 11:00* | *12/21/18 14:44* | *1* |
| *Dibromofluoromethane (Surr)* | *114* | | *60 - 140* | *12/21/18 11:00* | *12/21/18 14:44* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *71 - 125* | *12/21/18 11:00* | *12/21/18 14:44* | *1* |

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **110000** | | 2600 | 350 | ug/Kg | ☼ | 12/22/18 14:35 | 12/24/18 12:19 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *53 - 146* | *12/22/18 14:35* | *12/24/18 12:19* | *20* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *49 - 148* | *12/22/18 14:35* | *12/24/18 12:19* | *20* |
| *Dibromofluoromethane (Surr)* | *99* | | *60 - 140* | *12/22/18 14:35* | *12/24/18 12:19* | *20* |
| *Toluene-d8 (Surr)* | *95* | | *50 - 149* | *12/22/18 14:35* | *12/24/18 12:19* | *20* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Client Sample ID: SB-29 (5-6)**
**Date Collected: 12/18/18 15:00**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147085-2**
**Matrix: Solid**
**Percent Solids: 83.2**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.9 | 0.43 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.9 | 0.96 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.9 | 1.4 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.9 | 0.77 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,1-Dichloroethane | ND | | 5.9 | 0.72 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,1-Dichloroethene | ND | | 5.9 | 0.73 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.9 | 0.36 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.9 | 1.1 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.9 | 3.0 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,2-Dibromoethane | ND | | 5.9 | 0.76 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.9 | 0.46 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,2-Dichloroethane | ND | | 5.9 | 0.30 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,2-Dichloropropane | ND | | 5.9 | 3.0 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.9 | 0.38 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.9 | 0.30 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.9 | 0.83 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 2-Butanone (MEK) | ND | | 30 | 2.2 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 2-Hexanone | ND | | 30 | 3.0 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 4-Isopropyltoluene | ND | | 5.9 | 0.48 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 30 | 1.9 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Acetone | ND | | 30 | 5.0 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Benzene | ND | | 5.9 | 0.29 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Bromodichloromethane | ND | | 5.9 | 0.79 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Bromoform | ND | | 5.9 | 3.0 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Bromomethane | ND | | 5.9 | 0.53 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Carbon disulfide | ND | | 5.9 | 3.0 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Carbon tetrachloride | ND | | 5.9 | 0.57 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Chlorobenzene | ND | | 5.9 | 0.78 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Chloroethane | ND | | 5.9 | 1.3 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| **Chloroform** | **0.41** | **J** | 5.9 | 0.37 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Chloromethane | ND | | 5.9 | 0.36 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| **cis-1,2-Dichloroethene** | **17** | | 5.9 | 0.76 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.9 | 0.85 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Cyclohexane | ND | | 5.9 | 0.83 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Dibromochloromethane | ND | | 5.9 | 0.76 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Dichlorodifluoromethane | ND | | 5.9 | 0.49 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Ethylbenzene | ND | | 5.9 | 0.41 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Isopropylbenzene | ND | | 5.9 | 0.89 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| m,p-Xylene | ND | | 12 | 1.0 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Methyl acetate | ND | | 30 | 3.6 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Methyl tert-butyl ether | ND | | 5.9 | 0.58 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Methylcyclohexane | ND | | 5.9 | 0.90 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Methylene Chloride | ND | | 5.9 | 2.7 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| n-Butylbenzene | ND | | 5.9 | 0.52 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| N-Propylbenzene | ND | | 5.9 | 0.47 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| o-Xylene | ND | | 5.9 | 0.77 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| sec-Butylbenzene | ND | | 5.9 | 0.52 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Styrene | ND | | 5.9 | 0.30 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| tert-Butylbenzene | ND | | 5.9 | 0.62 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Client Sample ID: SB-29 (5-6)**
**Date Collected: 12/18/18 15:00**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147085-2**
**Matrix: Solid**
**Percent Solids: 83.2**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 5.9 | 0.45 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| **trans-1,2-Dichloroethene** | **3.9** | **J** | 5.9 | 0.61 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.9 | 2.6 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Trichlorofluoromethane | ND | | 5.9 | 0.56 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Vinyl chloride | ND | | 5.9 | 0.72 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |
| Xylenes, Total | ND | | 12 | 1.0 | ug/Kg | ☼ | 12/21/18 11:00 | 12/21/18 15:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 126* | *12/21/18 11:00* | *12/21/18 15:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *72 - 126* | *12/21/18 11:00* | *12/21/18 15:10* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *60 - 140* | *12/21/18 11:00* | *12/21/18 15:10* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *71 - 125* | *12/21/18 11:00* | *12/21/18 15:10* | *1* |

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **7100** | | 130 | 18 | ug/Kg | ☼ | 12/22/18 14:35 | 12/24/18 12:46 | 1 |
| **Trichloroethene** | **450** | | 130 | 36 | ug/Kg | ☼ | 12/22/18 14:35 | 12/24/18 12:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *53 - 146* | *12/22/18 14:35* | *12/24/18 12:46* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *49 - 148* | *12/22/18 14:35* | *12/24/18 12:46* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *60 - 140* | *12/22/18 14:35* | *12/24/18 12:46* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *50 - 149* | *12/22/18 14:35* | *12/24/18 12:46* | *1* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Client Sample ID: TMW-3**
**Date Collected: 12/19/18 10:00**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147085-3**
**Matrix: Water**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 4.0 | 3.3 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.0 | 0.84 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.0 | 1.2 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,1,2-Trichloroethane | ND | | 4.0 | 0.92 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,1-Dichloroethane | ND | | 4.0 | 1.5 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,1-Dichloroethene | ND | | 4.0 | 1.2 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,2,4-Trichlorobenzene | ND | | 4.0 | 1.6 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,2,4-Trimethylbenzene | ND | | 4.0 | 3.0 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.0 | 1.6 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,2-Dibromoethane | ND | | 4.0 | 2.9 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,2-Dichlorobenzene | ND | | 4.0 | 3.2 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,2-Dichloroethane | ND | | 4.0 | 0.84 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,2-Dichloropropane | ND | | 4.0 | 2.9 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,3,5-Trimethylbenzene | ND | | 4.0 | 3.1 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,3-Dichlorobenzene | ND | | 4.0 | 3.1 | ug/L | | | 12/22/18 15:37 | 4 |
| 1,4-Dichlorobenzene | ND | | 4.0 | 3.4 | ug/L | | | 12/22/18 15:37 | 4 |
| 2-Butanone (MEK) | ND | | 40 | 5.3 | ug/L | | | 12/22/18 15:37 | 4 |
| 2-Hexanone | ND | | 20 | 5.0 | ug/L | | | 12/22/18 15:37 | 4 |
| 4-Isopropyltoluene | ND | | 4.0 | 1.2 | ug/L | | | 12/22/18 15:37 | 4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 20 | 8.4 | ug/L | | | 12/22/18 15:37 | 4 |
| Acetone | ND | | 40 | 12 | ug/L | | | 12/22/18 15:37 | 4 |
| Benzene | ND | | 4.0 | 1.6 | ug/L | | | 12/22/18 15:37 | 4 |
| Bromodichloromethane | ND | | 4.0 | 1.6 | ug/L | | | 12/22/18 15:37 | 4 |
| Bromoform | ND | | 4.0 | 1.0 | ug/L | | | 12/22/18 15:37 | 4 |
| Bromomethane | ND | | 4.0 | 2.8 | ug/L | | | 12/22/18 15:37 | 4 |
| Carbon disulfide | ND | | 4.0 | 0.76 | ug/L | | | 12/22/18 15:37 | 4 |
| Carbon tetrachloride | ND | | 4.0 | 1.1 | ug/L | | | 12/22/18 15:37 | 4 |
| Chlorobenzene | ND | | 4.0 | 3.0 | ug/L | | | 12/22/18 15:37 | 4 |
| Chloroethane | ND | | 4.0 | 1.3 | ug/L | | | 12/22/18 15:37 | 4 |
| Chloroform | ND | | 4.0 | 1.4 | ug/L | | | 12/22/18 15:37 | 4 |
| Chloromethane | ND | | 4.0 | 1.4 | ug/L | | | 12/22/18 15:37 | 4 |
| **cis-1,2-Dichloroethene** | **9.3** | | 4.0 | 3.2 | ug/L | | | 12/22/18 15:37 | 4 |
| cis-1,3-Dichloropropene | ND | | 4.0 | 1.4 | ug/L | | | 12/22/18 15:37 | 4 |
| Cyclohexane | ND | | 4.0 | 0.72 | ug/L | | | 12/22/18 15:37 | 4 |
| Dibromochloromethane | ND | | 4.0 | 1.3 | ug/L | | | 12/22/18 15:37 | 4 |
| Dichlorodifluoromethane | ND | | 4.0 | 2.7 | ug/L | | | 12/22/18 15:37 | 4 |
| Ethylbenzene | ND | | 4.0 | 3.0 | ug/L | | | 12/22/18 15:37 | 4 |
| Isopropylbenzene | ND | | 4.0 | 3.2 | ug/L | | | 12/22/18 15:37 | 4 |
| m,p-Xylene | ND | | 8.0 | 2.6 | ug/L | | | 12/22/18 15:37 | 4 |
| Methyl acetate | ND | | 10 | 5.2 | ug/L | | | 12/22/18 15:37 | 4 |
| Methyl tert-butyl ether | ND | | 4.0 | 0.64 | ug/L | | | 12/22/18 15:37 | 4 |
| Methylcyclohexane | ND | | 4.0 | 0.64 | ug/L | | | 12/22/18 15:37 | 4 |
| Methylene Chloride | ND | | 4.0 | 1.8 | ug/L | | | 12/22/18 15:37 | 4 |
| n-Butylbenzene | ND | | 4.0 | 2.6 | ug/L | | | 12/22/18 15:37 | 4 |
| N-Propylbenzene | ND | | 4.0 | 2.8 | ug/L | | | 12/22/18 15:37 | 4 |
| o-Xylene | ND | | 4.0 | 3.0 | ug/L | | | 12/22/18 15:37 | 4 |
| sec-Butylbenzene | ND | | 4.0 | 3.0 | ug/L | | | 12/22/18 15:37 | 4 |
| Styrene | ND | | 4.0 | 2.9 | ug/L | | | 12/22/18 15:37 | 4 |
| tert-Butylbenzene | ND | | 4.0 | 3.2 | ug/L | | | 12/22/18 15:37 | 4 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Client Sample ID: TMW-3**
**Date Collected: 12/19/18 10:00**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147085-3**
**Matrix: Water**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **280** | | 4.0 | 1.4 | ug/L | | | 12/22/18 15:37 | 4 |
| Toluene | ND | | 4.0 | 2.0 | ug/L | | | 12/22/18 15:37 | 4 |
| trans-1,2-Dichloroethene | ND | | 4.0 | 3.6 | ug/L | | | 12/22/18 15:37 | 4 |
| trans-1,3-Dichloropropene | ND | | 4.0 | 1.5 | ug/L | | | 12/22/18 15:37 | 4 |
| **Trichloroethene** | **36** | | 4.0 | 1.8 | ug/L | | | 12/22/18 15:37 | 4 |
| Trichlorofluoromethane | ND | | 4.0 | 3.5 | ug/L | | | 12/22/18 15:37 | 4 |
| Vinyl chloride | ND | | 4.0 | 3.6 | ug/L | | | 12/22/18 15:37 | 4 |
| Xylenes, Total | ND | | 8.0 | 2.6 | ug/L | | | 12/22/18 15:37 | 4 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *77 - 120* | | *12/22/18 15:37* | *4* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *73 - 120* | | *12/22/18 15:37* | *4* |
| *Toluene-d8 (Surr)* | *93* | | *80 - 120* | | *12/22/18 15:37* | *4* |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Client Sample ID: TMW-4**
**Date Collected: 12/19/18 10:30**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147085-4**
**Matrix: Water**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 20 | 16 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | 20 | 4.2 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 20 | 6.2 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,1,2-Trichloroethane | ND | | 20 | 4.6 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,1-Dichloroethane | ND | | 20 | 7.6 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,1-Dichloroethene | ND | | 20 | 5.8 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 20 | 8.2 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,2,4-Trimethylbenzene | ND | | 20 | 15 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | | 20 | 7.8 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,2-Dibromoethane | ND | | 20 | 15 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,2-Dichlorobenzene | ND | | 20 | 16 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,2-Dichloroethane | ND | | 20 | 4.2 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,2-Dichloropropane | ND | | 20 | 14 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,3,5-Trimethylbenzene | ND | | 20 | 15 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,3-Dichlorobenzene | ND | | 20 | 16 | ug/L | | | 12/22/18 16:04 | 20 |
| 1,4-Dichlorobenzene | ND | | 20 | 17 | ug/L | | | 12/22/18 16:04 | 20 |
| 2-Butanone (MEK) | ND | | 200 | 26 | ug/L | | | 12/22/18 16:04 | 20 |
| 2-Hexanone | ND | | 100 | 25 | ug/L | | | 12/22/18 16:04 | 20 |
| 4-Isopropyltoluene | ND | | 20 | 6.2 | ug/L | | | 12/22/18 16:04 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 100 | 42 | ug/L | | | 12/22/18 16:04 | 20 |
| Acetone | ND | | 200 | 60 | ug/L | | | 12/22/18 16:04 | 20 |
| Benzene | ND | | 20 | 8.2 | ug/L | | | 12/22/18 16:04 | 20 |
| Bromodichloromethane | ND | | 20 | 7.8 | ug/L | | | 12/22/18 16:04 | 20 |
| Bromoform | ND | | 20 | 5.2 | ug/L | | | 12/22/18 16:04 | 20 |
| Bromomethane | ND | | 20 | 14 | ug/L | | | 12/22/18 16:04 | 20 |
| Carbon disulfide | ND | | 20 | 3.8 | ug/L | | | 12/22/18 16:04 | 20 |
| Carbon tetrachloride | ND | | 20 | 5.4 | ug/L | | | 12/22/18 16:04 | 20 |
| Chlorobenzene | ND | | 20 | 15 | ug/L | | | 12/22/18 16:04 | 20 |
| Chloroethane | ND | | 20 | 6.4 | ug/L | | | 12/22/18 16:04 | 20 |
| Chloroform | ND | | 20 | 6.8 | ug/L | | | 12/22/18 16:04 | 20 |
| Chloromethane | ND | | 20 | 7.0 | ug/L | | | 12/22/18 16:04 | 20 |
| **cis-1,2-Dichloroethene** | **860** | **F1** | 20 | 16 | ug/L | | | 12/22/18 16:04 | 20 |
| cis-1,3-Dichloropropene | ND | | 20 | 7.2 | ug/L | | | 12/22/18 16:04 | 20 |
| Cyclohexane | ND | | 20 | 3.6 | ug/L | | | 12/22/18 16:04 | 20 |
| Dibromochloromethane | ND | | 20 | 6.4 | ug/L | | | 12/22/18 16:04 | 20 |
| Dichlorodifluoromethane | ND | | 20 | 14 | ug/L | | | 12/22/18 16:04 | 20 |
| Ethylbenzene | ND | | 20 | 15 | ug/L | | | 12/22/18 16:04 | 20 |
| Isopropylbenzene | ND | | 20 | 16 | ug/L | | | 12/22/18 16:04 | 20 |
| m,p-Xylene | ND | | 40 | 13 | ug/L | | | 12/22/18 16:04 | 20 |
| Methyl acetate | ND | | 50 | 26 | ug/L | | | 12/22/18 16:04 | 20 |
| Methyl tert-butyl ether | ND | | 20 | 3.2 | ug/L | | | 12/22/18 16:04 | 20 |
| Methylcyclohexane | ND | | 20 | 3.2 | ug/L | | | 12/22/18 16:04 | 20 |
| Methylene Chloride | ND | | 20 | 8.8 | ug/L | | | 12/22/18 16:04 | 20 |
| n-Butylbenzene | ND | | 20 | 13 | ug/L | | | 12/22/18 16:04 | 20 |
| N-Propylbenzene | ND | | 20 | 14 | ug/L | | | 12/22/18 16:04 | 20 |
| o-Xylene | ND | | 20 | 15 | ug/L | | | 12/22/18 16:04 | 20 |
| sec-Butylbenzene | ND | | 20 | 15 | ug/L | | | 12/22/18 16:04 | 20 |
| Styrene | ND | | 20 | 15 | ug/L | | | 12/22/18 16:04 | 20 |
| tert-Butylbenzene | ND | | 20 | 16 | ug/L | | | 12/22/18 16:04 | 20 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Client Sample ID: TMW-4**
**Date Collected: 12/19/18 10:30**
**Date Received: 12/20/18 11:30**

**Lab Sample ID: 480-147085-4**
**Matrix: Water**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **1900** | **F1** | 20 | 7.2 | ug/L | | | 12/22/18 16:04 | 20 |
| Toluene | ND | | 20 | 10 | ug/L | | | 12/22/18 16:04 | 20 |
| **trans-1,2-Dichloroethene** | **34** | | 20 | 18 | ug/L | | | 12/22/18 16:04 | 20 |
| trans-1,3-Dichloropropene | ND | | 20 | 7.4 | ug/L | | | 12/22/18 16:04 | 20 |
| **Trichloroethene** | **130** | | 20 | 9.2 | ug/L | | | 12/22/18 16:04 | 20 |
| Trichlorofluoromethane | ND | | 20 | 18 | ug/L | | | 12/22/18 16:04 | 20 |
| **Vinyl chloride** | **24** | | 20 | 18 | ug/L | | | 12/22/18 16:04 | 20 |
| Xylenes, Total | ND | | 40 | 13 | ug/L | | | 12/22/18 16:04 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *77 - 120* | | *12/22/18 16:04* | *20* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *73 - 120* | | *12/22/18 16:04* | *20* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | | *12/22/18 16:04* | *20* |

# Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (64-126) | (72-126) | (60-140) | (71-125) |
| 480-147085-1 | SB-25 (5-7) | 111 | 88 | 114 | 100 |
| 480-147085-2 | SB-29 (5-6) | 108 | 97 | 110 | 103 |
| LCS 480-452103/1-A | Lab Control Sample | 105 | 104 | 108 | 104 |
| MB 480-452103/2-A | Method Blank | 108 | 101 | 109 | 103 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (53-146) | (49-148) | (60-140) | (50-149) |
| 480-147085-1 - DL | SB-25 (5-7) | 99 | 103 | 99 | 95 |
| 480-147085-2 - DL | SB-29 (5-6) | 97 | 97 | 94 | 92 |
| LCS 480-452255/1-A | Lab Control Sample | 100 | 106 | 101 | 99 |
| MB 480-452255/2-A | Method Blank | 101 | 104 | 97 | 100 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | DCA | BFB | TOL |
| Lab Sample ID | Client Sample ID | (77-120) | (73-120) | (80-120) |
| 480-147085-3 | TMW-3 | 98 | 95 | 93 |
| 480-147085-4 | TMW-4 | 102 | 99 | 95 |
| 480-147085-4 MS | TMW-4 | 99 | 100 | 94 |
| 480-147085-4 MSD | TMW-4 | 97 | 101 | 95 |
| LCS 480-452238/6 | Lab Control Sample | 80 | 113 | 86 |
| MB 480-452238/28 | Method Blank | 102 | 103 | 101 |

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-452103/2-A**
**Matrix: Solid**
**Analysis Batch: 452093**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 452103**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.36 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.81 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.65 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.61 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.30 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 0.96 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 0.64 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.39 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.25 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 0.32 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.26 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.70 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 2-Butanone (MEK) | ND | | 25 | 1.8 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 2-Hexanone | ND | | 25 | 2.5 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | 0.40 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | 1.6 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Acetone | ND | | 25 | 4.2 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.67 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Bromomethane | ND | | 5.0 | 0.45 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Carbon disulfide | ND | | 5.0 | 2.5 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.48 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Chloroethane | ND | | 5.0 | 1.1 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Chloroform | ND | | 5.0 | 0.31 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Chloromethane | ND | | 5.0 | 0.30 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.64 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.72 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Cyclohexane | ND | | 5.0 | 0.70 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.64 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.41 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.35 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.75 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| m,p-Xylene | ND | | 10 | 0.84 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Methyl acetate | ND | | 25 | 3.0 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.49 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.76 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Methylene Chloride | ND | | 5.0 | 2.3 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| n-Butylbenzene | ND | | 5.0 | 0.44 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| N-Propylbenzene | ND | | 5.0 | 0.40 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| o-Xylene | ND | | 5.0 | 0.65 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| sec-Butylbenzene | ND | | 5.0 | 0.44 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Styrene | ND | | 5.0 | 0.25 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-452103/2-A**
**Matrix: Solid**
**Analysis Batch: 452093**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 452103**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| tert-Butylbenzene | ND | | 5.0 | 0.52 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.67 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Toluene | ND | | 5.0 | 0.38 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.52 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 2.2 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Trichloroethene | ND | | 5.0 | 1.1 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.47 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.61 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |
| Xylenes, Total | ND | | 10 | 0.84 | ug/Kg | | 12/21/18 11:00 | 12/21/18 14:01 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 126* | *12/21/18 11:00* | *12/21/18 14:01* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *72 - 126* | *12/21/18 11:00* | *12/21/18 14:01* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *60 - 140* | *12/21/18 11:00* | *12/21/18 14:01* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *71 - 125* | *12/21/18 11:00* | *12/21/18 14:01* | *1* |

**Lab Sample ID: LCS 480-452103/1-A**
**Matrix: Solid**
**Analysis Batch: 452093**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452103**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 50.0 | 47.3 | | ug/Kg | | 95 | 77 - 121 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 47.4 | | ug/Kg | | 95 | 80 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 45.5 | | ug/Kg | | 91 | 60 - 140 |
| 1,1,2-Trichloroethane | 50.0 | 48.8 | | ug/Kg | | 98 | 78 - 122 |
| 1,1-Dichloroethane | 50.0 | 45.7 | | ug/Kg | | 91 | 73 - 126 |
| 1,1-Dichloroethene | 50.0 | 45.9 | | ug/Kg | | 92 | 59 - 125 |
| 1,2,4-Trichlorobenzene | 50.0 | 44.5 | | ug/Kg | | 89 | 64 - 120 |
| 1,2,4-Trimethylbenzene | 50.0 | 45.8 | | ug/Kg | | 92 | 74 - 120 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 43.6 | | ug/Kg | | 87 | 63 - 124 |
| 1,2-Dibromoethane | 50.0 | 51.4 | | ug/Kg | | 103 | 78 - 120 |
| 1,2-Dichlorobenzene | 50.0 | 47.0 | | ug/Kg | | 94 | 75 - 120 |
| 1,2-Dichloroethane | 50.0 | 49.4 | | ug/Kg | | 99 | 77 - 122 |
| 1,2-Dichloropropane | 50.0 | 45.1 | | ug/Kg | | 90 | 75 - 124 |
| 1,3,5-Trimethylbenzene | 50.0 | 45.9 | | ug/Kg | | 92 | 74 - 120 |
| 1,3-Dichlorobenzene | 50.0 | 47.0 | | ug/Kg | | 94 | 74 - 120 |
| 1,4-Dichlorobenzene | 50.0 | 47.6 | | ug/Kg | | 95 | 73 - 120 |
| 2-Butanone (MEK) | 250 | 237 | | ug/Kg | | 95 | 70 - 134 |
| 2-Hexanone | 250 | 229 | | ug/Kg | | 92 | 59 - 130 |
| 4-Isopropyltoluene | 50.0 | 44.8 | | ug/Kg | | 90 | 74 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 214 | | ug/Kg | | 86 | 65 - 133 |
| Acetone | 250 | 255 | | ug/Kg | | 102 | 61 - 137 |
| Benzene | 50.0 | 47.5 | | ug/Kg | | 95 | 79 - 127 |
| Bromodichloromethane | 50.0 | 49.4 | | ug/Kg | | 99 | 80 - 122 |
| Bromoform | 50.0 | 52.4 | | ug/Kg | | 105 | 68 - 126 |
| Bromomethane | 50.0 | 40.6 | | ug/Kg | | 81 | 37 - 149 |
| Carbon disulfide | 50.0 | 40.4 | | ug/Kg | | 81 | 64 - 131 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-452103/1-A**
**Matrix: Solid**
**Analysis Batch: 452093**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452103**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 50.0 | 46.6 | | ug/Kg | | 93 | 75 - 135 |
| Chlorobenzene | 50.0 | 48.8 | | ug/Kg | | 98 | 76 - 124 |
| Chloroethane | 50.0 | 42.8 | | ug/Kg | | 86 | 69 - 135 |
| Chloroform | 50.0 | 48.7 | | ug/Kg | | 97 | 80 - 120 |
| Chloromethane | 50.0 | 40.9 | | ug/Kg | | 82 | 63 - 127 |
| cis-1,2-Dichloroethene | 50.0 | 47.9 | | ug/Kg | | 96 | 81 - 120 |
| cis-1,3-Dichloropropene | 50.0 | 46.9 | | ug/Kg | | 94 | 80 - 120 |
| Cyclohexane | 50.0 | 38.4 | | ug/Kg | | 77 | 65 - 120 |
| Dibromochloromethane | 50.0 | 52.7 | | ug/Kg | | 105 | 76 - 125 |
| Dichlorodifluoromethane | 50.0 | 42.0 | | ug/Kg | | 84 | 57 - 142 |
| Ethylbenzene | 50.0 | 47.3 | | ug/Kg | | 95 | 80 - 120 |
| Isopropylbenzene | 50.0 | 44.9 | | ug/Kg | | 90 | 72 - 120 |
| m,p-Xylene | 50.0 | 46.7 | | ug/Kg | | 93 | 70 - 130 |
| Methyl acetate | 100 | 97.7 | | ug/Kg | | 98 | 55 - 136 |
| Methyl tert-butyl ether | 50.0 | 48.1 | | ug/Kg | | 96 | 63 - 125 |
| Methylcyclohexane | 50.0 | 40.8 | | ug/Kg | | 82 | 60 - 140 |
| Methylene Chloride | 50.0 | 47.5 | | ug/Kg | | 95 | 61 - 127 |
| n-Butylbenzene | 50.0 | 43.9 | | ug/Kg | | 88 | 70 - 120 |
| N-Propylbenzene | 50.0 | 45.0 | | ug/Kg | | 90 | 70 - 130 |
| o-Xylene | 50.0 | 46.1 | | ug/Kg | | 92 | 70 - 130 |
| sec-Butylbenzene | 50.0 | 44.6 | | ug/Kg | | 89 | 74 - 120 |
| Styrene | 50.0 | 45.9 | | ug/Kg | | 92 | 80 - 120 |
| tert-Butylbenzene | 50.0 | 45.0 | | ug/Kg | | 90 | 73 - 120 |
| Tetrachloroethene | 50.0 | 47.3 | | ug/Kg | | 95 | 74 - 122 |
| Toluene | 50.0 | 46.6 | | ug/Kg | | 93 | 74 - 128 |
| trans-1,2-Dichloroethene | 50.0 | 48.0 | | ug/Kg | | 96 | 78 - 126 |
| trans-1,3-Dichloropropene | 50.0 | 47.1 | | ug/Kg | | 94 | 73 - 123 |
| Trichloroethene | 50.0 | 48.0 | | ug/Kg | | 96 | 77 - 129 |
| Trichlorofluoromethane | 50.0 | 45.0 | | ug/Kg | | 90 | 65 - 146 |
| Vinyl chloride | 50.0 | 43.0 | | ug/Kg | | 86 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *64 - 126* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *72 - 126* |
| *Dibromofluoromethane (Surr)* | *108* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *104* | | *71 - 125* |

**Lab Sample ID: MB 480-452238/28**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 12/22/18 14:06 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-452238/28**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 12/22/18 14:06 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 12/22/18 14:06 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 12/22/18 14:06 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 12/22/18 14:06 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | 0.31 | ug/L | | | 12/22/18 14:06 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 12/22/18 14:06 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 12/22/18 14:06 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 12/22/18 14:06 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 12/22/18 14:06 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 12/22/18 14:06 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 12/22/18 14:06 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 12/22/18 14:06 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 12/22/18 14:06 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 12/22/18 14:06 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 12/22/18 14:06 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 12/22/18 14:06 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 12/22/18 14:06 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 12/22/18 14:06 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 12/22/18 14:06 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 12/22/18 14:06 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 12/22/18 14:06 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 12/22/18 14:06 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 12/22/18 14:06 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 12/22/18 14:06 | 1 |
| m,p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 12/22/18 14:06 | 1 |
| Methyl acetate | ND | | 2.5 | 1.3 | ug/L | | | 12/22/18 14:06 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 12/22/18 14:06 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 12/22/18 14:06 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 12/22/18 14:06 | 1 |
| n-Butylbenzene | ND | | 1.0 | 0.64 | ug/L | | | 12/22/18 14:06 | 1 |
| N-Propylbenzene | ND | | 1.0 | 0.69 | ug/L | | | 12/22/18 14:06 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 12/22/18 14:06 | 1 |
| sec-Butylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 12/22/18 14:06 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 12/22/18 14:06 | 1 |
| tert-Butylbenzene | ND | | 1.0 | 0.81 | ug/L | | | 12/22/18 14:06 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 12/22/18 14:06 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 12/22/18 14:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 12/22/18 14:06 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 12/22/18 14:06 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 12/22/18 14:06 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-452238/28**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 12/22/18 14:06 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 12/22/18 14:06 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 12/22/18 14:06 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *77 - 120* | | *12/22/18 14:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *73 - 120* | | *12/22/18 14:06* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *12/22/18 14:06* | *1* |

**Lab Sample ID: LCS 480-452238/6**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 25.0 | 25.7 | | ug/L | | 103 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 22.5 | | ug/L | | 90 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 25.0 | | ug/L | | 100 | 61 - 148 |
| 1,1,2-Trichloroethane | 25.0 | 23.5 | | ug/L | | 94 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 24.9 | | ug/L | | 100 | 77 - 120 |
| 1,1-Dichloroethene | 25.0 | 24.8 | | ug/L | | 99 | 66 - 127 |
| 1,2,4-Trichlorobenzene | 25.0 | 23.9 | | ug/L | | 95 | 79 - 122 |
| 1,2,4-Trimethylbenzene | 25.0 | 25.8 | | ug/L | | 103 | 76 - 121 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 22.2 | | ug/L | | 89 | 56 - 134 |
| 1,2-Dibromoethane | 25.0 | 23.9 | | ug/L | | 96 | 77 - 120 |
| 1,2-Dichlorobenzene | 25.0 | 25.6 | | ug/L | | 102 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 24.4 | | ug/L | | 98 | 75 - 120 |
| 1,2-Dichloropropane | 25.0 | 25.4 | | ug/L | | 101 | 76 - 120 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.9 | | ug/L | | 103 | 77 - 121 |
| 1,3-Dichlorobenzene | 25.0 | 24.5 | | ug/L | | 98 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 24.4 | | ug/L | | 98 | 80 - 120 |
| 2-Butanone (MEK) | 125 | 129 | | ug/L | | 103 | 57 - 140 |
| 2-Hexanone | 125 | 120 | | ug/L | | 96 | 65 - 127 |
| 4-Isopropyltoluene | 25.0 | 27.3 | | ug/L | | 109 | 73 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 121 | | ug/L | | 97 | 71 - 125 |
| Acetone | 125 | 167 | | ug/L | | 134 | 56 - 142 |
| Benzene | 25.0 | 23.7 | | ug/L | | 95 | 71 - 124 |
| Bromodichloromethane | 25.0 | 24.7 | | ug/L | | 99 | 80 - 122 |
| Bromoform | 25.0 | 26.3 | | ug/L | | 105 | 61 - 132 |
| Bromomethane | 25.0 | 22.8 | | ug/L | | 91 | 55 - 144 |
| Carbon disulfide | 25.0 | 21.3 | | ug/L | | 85 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 26.6 | | ug/L | | 107 | 72 - 134 |
| Chlorobenzene | 25.0 | 24.1 | | ug/L | | 97 | 80 - 120 |
| Chloroethane | 25.0 | 25.1 | | ug/L | | 101 | 69 - 136 |
| Chloroform | 25.0 | 24.6 | | ug/L | | 98 | 73 - 127 |
| Chloromethane | 25.0 | 24.7 | | ug/L | | 99 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 24.2 | | ug/L | | 97 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 25.0 | | ug/L | | 100 | 74 - 124 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-452238/6**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyclohexane | 25.0 | 28.1 | | ug/L | | 112 | 59 - 135 |
| Dibromochloromethane | 25.0 | 26.7 | | ug/L | | 107 | 75 - 125 |
| Dichlorodifluoromethane | 25.0 | 28.7 | | ug/L | | 115 | 59 - 135 |
| Ethylbenzene | 25.0 | 24.9 | | ug/L | | 100 | 77 - 123 |
| Isopropylbenzene | 25.0 | 25.7 | | ug/L | | 103 | 77 - 122 |
| m,p-Xylene | 25.0 | 25.8 | | ug/L | | 103 | 76 - 122 |
| Methyl acetate | 50.0 | 46.2 | | ug/L | | 92 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 23.5 | | ug/L | | 94 | 77 - 120 |
| Methylcyclohexane | 25.0 | 28.8 | | ug/L | | 115 | 68 - 134 |
| Methylene Chloride | 25.0 | 22.5 | | ug/L | | 90 | 75 - 124 |
| n-Butylbenzene | 25.0 | 26.9 | | ug/L | | 108 | 71 - 128 |
| N-Propylbenzene | 25.0 | 25.0 | | ug/L | | 100 | 75 - 127 |
| o-Xylene | 25.0 | 24.9 | | ug/L | | 99 | 76 - 122 |
| sec-Butylbenzene | 25.0 | 26.4 | | ug/L | | 106 | 74 - 127 |
| Styrene | 25.0 | 24.2 | | ug/L | | 97 | 80 - 120 |
| tert-Butylbenzene | 25.0 | 25.9 | | ug/L | | 104 | 75 - 123 |
| Tetrachloroethene | 25.0 | 25.6 | | ug/L | | 103 | 74 - 122 |
| Toluene | 25.0 | 24.2 | | ug/L | | 97 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 24.1 | | ug/L | | 96 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 24.8 | | ug/L | | 99 | 80 - 120 |
| Trichloroethene | 25.0 | 24.5 | | ug/L | | 98 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 28.3 | | ug/L | | 113 | 62 - 150 |
| Vinyl chloride | 25.0 | 25.8 | | ug/L | | 103 | 65 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *77 - 120* |
| *4-Bromofluorobenzene (Surr)* | *113* | | *73 - 120* |
| *Toluene-d8 (Surr)* | *86* | | *80 - 120* |

**Lab Sample ID: 480-147085-4 MS**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: TMW-4**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 500 | 511 | | ug/L | | 102 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | ND | | 500 | 444 | | ug/L | | 89 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 500 | 510 | | ug/L | | 102 | 61 - 148 |
| 1,1,2-Trichloroethane | ND | | 500 | 456 | | ug/L | | 91 | 76 - 122 |
| 1,1-Dichloroethane | ND | | 500 | 492 | | ug/L | | 98 | 77 - 120 |
| 1,1-Dichloroethene | ND | | 500 | 501 | | ug/L | | 100 | 66 - 127 |
| 1,2,4-Trichlorobenzene | ND | | 500 | 446 | | ug/L | | 89 | 79 - 122 |
| 1,2,4-Trimethylbenzene | ND | | 500 | 499 | | ug/L | | 100 | 76 - 121 |
| 1,2-Dibromo-3-Chloropropane | ND | | 500 | 420 | | ug/L | | 84 | 56 - 134 |
| 1,2-Dibromoethane | ND | | 500 | 459 | | ug/L | | 92 | 77 - 120 |
| 1,2-Dichlorobenzene | ND | | 500 | 492 | | ug/L | | 98 | 80 - 124 |
| 1,2-Dichloroethane | ND | | 500 | 487 | | ug/L | | 97 | 75 - 120 |
| 1,2-Dichloropropane | ND | | 500 | 492 | | ug/L | | 98 | 76 - 120 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-147085-4 MS**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: TMW-4**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | | 500 | 493 | | ug/L | | 99 | 77 - 121 |
| 1,3-Dichlorobenzene | ND | | 500 | 466 | | ug/L | | 93 | 77 - 120 |
| 1,4-Dichlorobenzene | ND | | 500 | 466 | | ug/L | | 93 | 78 - 124 |
| 2-Butanone (MEK) | ND | | 2500 | 2450 | | ug/L | | 98 | 57 - 140 |
| 2-Hexanone | ND | | 2500 | 2300 | | ug/L | | 92 | 65 - 127 |
| 4-Isopropyltoluene | ND | | 500 | 522 | | ug/L | | 104 | 73 - 120 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2500 | 2280 | | ug/L | | 91 | 71 - 125 |
| Acetone | ND | | 2500 | 2860 | | ug/L | | 115 | 56 - 142 |
| Benzene | ND | | 500 | 482 | | ug/L | | 96 | 71 - 124 |
| Bromodichloromethane | ND | | 500 | 494 | | ug/L | | 99 | 80 - 122 |
| Bromoform | ND | | 500 | 517 | | ug/L | | 103 | 61 - 132 |
| Bromomethane | ND | | 500 | 477 | | ug/L | | 95 | 55 - 144 |
| Carbon disulfide | ND | | 500 | 427 | | ug/L | | 85 | 59 - 134 |
| Carbon tetrachloride | ND | | 500 | 521 | | ug/L | | 104 | 72 - 134 |
| Chlorobenzene | ND | | 500 | 480 | | ug/L | | 96 | 80 - 120 |
| Chloroethane | ND | | 500 | 566 | | ug/L | | 113 | 69 - 136 |
| Chloroform | ND | | 500 | 488 | | ug/L | | 98 | 73 - 127 |
| Chloromethane | ND | | 500 | 491 | | ug/L | | 98 | 68 - 124 |
| cis-1,2-Dichloroethene | 860 | F1 | 500 | 1160 | F1 | ug/L | | 60 | 74 - 124 |
| cis-1,3-Dichloropropene | ND | | 500 | 470 | | ug/L | | 94 | 74 - 124 |
| Cyclohexane | ND | | 500 | 546 | | ug/L | | 109 | 59 - 135 |
| Dibromochloromethane | ND | | 500 | 509 | | ug/L | | 102 | 75 - 125 |
| Dichlorodifluoromethane | ND | | 500 | 588 | | ug/L | | 118 | 59 - 135 |
| Ethylbenzene | ND | | 500 | 483 | | ug/L | | 97 | 77 - 123 |
| Isopropylbenzene | ND | | 500 | 500 | | ug/L | | 100 | 77 - 122 |
| m,p-Xylene | ND | | 500 | 506 | | ug/L | | 101 | 76 - 122 |
| Methyl acetate | ND | | 1000 | 916 | | ug/L | | 92 | 74 - 133 |
| Methyl tert-butyl ether | ND | | 500 | 471 | | ug/L | | 94 | 77 - 120 |
| Methylcyclohexane | ND | | 500 | 576 | | ug/L | | 115 | 68 - 134 |
| Methylene Chloride | ND | | 500 | 451 | | ug/L | | 90 | 75 - 124 |
| n-Butylbenzene | ND | | 500 | 508 | | ug/L | | 102 | 71 - 128 |
| N-Propylbenzene | ND | | 500 | 485 | | ug/L | | 97 | 75 - 127 |
| o-Xylene | ND | | 500 | 481 | | ug/L | | 96 | 76 - 122 |
| sec-Butylbenzene | ND | | 500 | 507 | | ug/L | | 101 | 74 - 127 |
| Styrene | ND | | 500 | 474 | | ug/L | | 95 | 80 - 120 |
| tert-Butylbenzene | ND | | 500 | 513 | | ug/L | | 103 | 75 - 123 |
| Tetrachloroethene | 1900 | F1 | 500 | 1950 | F1 | ug/L | | 2 | 74 - 122 |
| Toluene | ND | | 500 | 473 | | ug/L | | 95 | 80 - 122 |
| trans-1,2-Dichloroethene | 34 | | 500 | 515 | | ug/L | | 96 | 73 - 127 |
| trans-1,3-Dichloropropene | ND | | 500 | 460 | | ug/L | | 92 | 80 - 120 |
| Trichloroethene | 130 | | 500 | 576 | | ug/L | | 89 | 74 - 123 |
| Trichlorofluoromethane | ND | | 500 | 606 | | ug/L | | 121 | 62 - 150 |
| Vinyl chloride | 24 | | 500 | 559 | | ug/L | | 107 | 65 - 133 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *77 - 120* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *73 - 120* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* |

**Lab Sample ID: 480-147085-4 MSD**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: TMW-4**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 500 | 516 | | ug/L | | 103 | 73 - 126 | 1 | 15 |
| 1,1,2,2-Tetrachloroethane | ND | | 500 | 463 | | ug/L | | 93 | 76 - 120 | 4 | 15 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 500 | 516 | | ug/L | | 103 | 61 - 148 | 1 | 20 |
| 1,1,2-Trichloroethane | ND | | 500 | 470 | | ug/L | | 94 | 76 - 122 | 3 | 15 |
| 1,1-Dichloroethane | ND | | 500 | 504 | | ug/L | | 101 | 77 - 120 | 2 | 20 |
| 1,1-Dichloroethene | ND | | 500 | 514 | | ug/L | | 103 | 66 - 127 | 3 | 16 |
| 1,2,4-Trichlorobenzene | ND | | 500 | 472 | | ug/L | | 94 | 79 - 122 | 6 | 20 |
| 1,2,4-Trimethylbenzene | ND | | 500 | 520 | | ug/L | | 104 | 76 - 121 | 4 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | | 500 | 449 | | ug/L | | 90 | 56 - 134 | 7 | 15 |
| 1,2-Dibromoethane | ND | | 500 | 481 | | ug/L | | 96 | 77 - 120 | 5 | 15 |
| 1,2-Dichlorobenzene | ND | | 500 | 519 | | ug/L | | 104 | 80 - 124 | 5 | 20 |
| 1,2-Dichloroethane | ND | | 500 | 488 | | ug/L | | 98 | 75 - 120 | 0 | 20 |
| 1,2-Dichloropropane | ND | | 500 | 497 | | ug/L | | 99 | 76 - 120 | 1 | 20 |
| 1,3,5-Trimethylbenzene | ND | | 500 | 526 | | ug/L | | 105 | 77 - 121 | 6 | 20 |
| 1,3-Dichlorobenzene | ND | | 500 | 493 | | ug/L | | 99 | 77 - 120 | 5 | 20 |
| 1,4-Dichlorobenzene | ND | | 500 | 503 | | ug/L | | 101 | 78 - 124 | 8 | 20 |
| 2-Butanone (MEK) | ND | | 2500 | 2530 | | ug/L | | 101 | 57 - 140 | 3 | 20 |
| 2-Hexanone | ND | | 2500 | 2340 | | ug/L | | 94 | 65 - 127 | 2 | 15 |
| 4-Isopropyltoluene | ND | | 500 | 549 | | ug/L | | 110 | 73 - 120 | 5 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2500 | 2340 | | ug/L | | 94 | 71 - 125 | 3 | 35 |
| Acetone | ND | | 2500 | 2760 | | ug/L | | 110 | 56 - 142 | 4 | 15 |
| Benzene | ND | | 500 | 487 | | ug/L | | 97 | 71 - 124 | 1 | 13 |
| Bromodichloromethane | ND | | 500 | 510 | | ug/L | | 102 | 80 - 122 | 3 | 15 |
| Bromoform | ND | | 500 | 514 | | ug/L | | 103 | 61 - 132 | 0 | 15 |
| Bromomethane | ND | | 500 | 465 | | ug/L | | 93 | 55 - 144 | 3 | 15 |
| Carbon disulfide | ND | | 500 | 437 | | ug/L | | 87 | 59 - 134 | 2 | 15 |
| Carbon tetrachloride | ND | | 500 | 525 | | ug/L | | 105 | 72 - 134 | 1 | 15 |
| Chlorobenzene | ND | | 500 | 482 | | ug/L | | 96 | 80 - 120 | 0 | 25 |
| Chloroethane | ND | | 500 | 546 | | ug/L | | 109 | 69 - 136 | 4 | 15 |
| Chloroform | ND | | 500 | 511 | | ug/L | | 102 | 73 - 127 | 5 | 20 |
| Chloromethane | ND | | 500 | 514 | | ug/L | | 103 | 68 - 124 | 5 | 15 |
| cis-1,2-Dichloroethene | 860 | F1 | 500 | 1210 | F1 | ug/L | | 70 | 74 - 124 | 4 | 15 |
| cis-1,3-Dichloropropene | ND | | 500 | 496 | | ug/L | | 99 | 74 - 124 | 6 | 15 |
| Cyclohexane | ND | | 500 | 561 | | ug/L | | 112 | 59 - 135 | 3 | 20 |
| Dibromochloromethane | ND | | 500 | 515 | | ug/L | | 103 | 75 - 125 | 1 | 15 |
| Dichlorodifluoromethane | ND | | 500 | 620 | | ug/L | | 124 | 59 - 135 | 5 | 20 |
| Ethylbenzene | ND | | 500 | 496 | | ug/L | | 99 | 77 - 123 | 3 | 15 |
| Isopropylbenzene | ND | | 500 | 517 | | ug/L | | 103 | 77 - 122 | 3 | 20 |
| m,p-Xylene | ND | | 500 | 512 | | ug/L | | 102 | 76 - 122 | 1 | 16 |
| Methyl acetate | ND | | 1000 | 922 | | ug/L | | 92 | 74 - 133 | 1 | 20 |
| Methyl tert-butyl ether | ND | | 500 | 462 | | ug/L | | 92 | 77 - 120 | 2 | 37 |
| Methylcyclohexane | ND | | 500 | 588 | | ug/L | | 118 | 68 - 134 | 2 | 20 |
| Methylene Chloride | ND | | 500 | 435 | | ug/L | | 87 | 75 - 124 | 3 | 15 |
| n-Butylbenzene | ND | | 500 | 535 | | ug/L | | 107 | 71 - 128 | 5 | 15 |
| N-Propylbenzene | ND | | 500 | 504 | | ug/L | | 101 | 75 - 127 | 4 | 15 |
| o-Xylene | ND | | 500 | 493 | | ug/L | | 99 | 76 - 122 | 2 | 16 |
| sec-Butylbenzene | ND | | 500 | 540 | | ug/L | | 108 | 74 - 127 | 6 | 15 |
| Styrene | ND | | 500 | 493 | | ug/L | | 99 | 80 - 120 | 4 | 20 |
| tert-Butylbenzene | ND | | 500 | 535 | | ug/L | | 107 | 75 - 123 | 4 | 15 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-147085-4 MSD**
**Matrix: Water**
**Analysis Batch: 452238**

**Client Sample ID: TMW-4**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 1900 | F1 | 500 | 2010 | E F1 | ug/L | | 13 | 74 - 122 | 3 | 20 |
| Toluene | ND | | 500 | 475 | | ug/L | | 95 | 80 - 122 | 0 | 15 |
| trans-1,2-Dichloroethene | 34 | | 500 | 514 | | ug/L | | 96 | 73 - 127 | 0 | 20 |
| trans-1,3-Dichloropropene | ND | | 500 | 461 | | ug/L | | 92 | 80 - 120 | 0 | 15 |
| Trichloroethene | 130 | | 500 | 592 | | ug/L | | 92 | 74 - 123 | 3 | 16 |
| Trichlorofluoromethane | ND | | 500 | 583 | | ug/L | | 117 | 62 - 150 | 4 | 20 |
| Vinyl chloride | 24 | | 500 | 561 | | ug/L | | 107 | 65 - 133 | 0 | 15 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *77 - 120* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *73 - 120* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* |

**Lab Sample ID: MB 480-452255/2-A**
**Matrix: Solid**
**Analysis Batch: 452307**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 452255**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 100 | 28 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 100 | 16 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 100 | 50 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 100 | 21 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,1-Dichloroethane | ND | | 100 | 31 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,1-Dichloroethene | ND | | 100 | 35 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 100 | 38 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 100 | 28 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 100 | 50 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,2-Dibromoethane | ND | | 100 | 18 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 100 | 26 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,2-Dichloroethane | ND | | 100 | 41 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,2-Dichloropropane | ND | | 100 | 16 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 100 | 30 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 100 | 27 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 100 | 14 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 2-Butanone (MEK) | ND | | 500 | 300 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 2-Hexanone | ND | | 500 | 210 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 4-Isopropyltoluene | ND | | 100 | 34 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | 32 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Acetone | ND | | 500 | 410 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Benzene | ND | | 100 | 19 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Bromodichloromethane | ND | | 100 | 20 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Bromoform | ND | | 100 | 50 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Bromomethane | ND | | 100 | 22 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Carbon disulfide | ND | | 100 | 46 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Carbon tetrachloride | ND | | 100 | 26 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Chlorobenzene | ND | | 100 | 13 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Chloroethane | ND | | 100 | 21 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Chloroform | ND | | 100 | 69 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-452255/2-A**
**Matrix: Solid**
**Analysis Batch: 452307**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 452255**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 100 | 24 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 100 | 28 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 100 | 24 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Cyclohexane | ND | | 100 | 22 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Dibromochloromethane | ND | | 100 | 48 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Dichlorodifluoromethane | ND | | 100 | 44 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Ethylbenzene | ND | | 100 | 29 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Isopropylbenzene | ND | | 100 | 15 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| m,p-Xylene | ND | | 200 | 55 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Methyl acetate | ND | | 500 | 48 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Methyl tert-butyl ether | ND | | 100 | 38 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Methylcyclohexane | ND | | 100 | 47 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Methylene Chloride | ND | | 100 | 20 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| n-Butylbenzene | ND | | 100 | 29 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| N-Propylbenzene | ND | | 100 | 26 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| o-Xylene | 18.0 | J | 100 | 13 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| sec-Butylbenzene | ND | | 100 | 37 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Styrene | ND | | 100 | 24 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| tert-Butylbenzene | ND | | 100 | 28 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Tetrachloroethene | ND | | 100 | 13 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Toluene | ND | | 100 | 27 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 100 | 24 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 100 | 9.8 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Trichloroethene | ND | | 100 | 28 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Trichlorofluoromethane | ND | | 100 | 47 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Vinyl chloride | ND | | 100 | 34 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |
| Xylenes, Total | ND | | 200 | 55 | ug/Kg | | 12/22/18 14:35 | 12/24/18 10:25 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *53 - 146* | *12/22/18 14:35* | *12/24/18 10:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *49 - 148* | *12/22/18 14:35* | *12/24/18 10:25* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *60 - 140* | *12/22/18 14:35* | *12/24/18 10:25* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *50 - 149* | *12/22/18 14:35* | *12/24/18 10:25* | *1* |

**Lab Sample ID: LCS 480-452255/1-A**
**Matrix: Solid**
**Analysis Batch: 452307**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452255**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2500 | 2280 | | ug/Kg | | 91 | 68 - 130 |
| 1,1,2,2-Tetrachloroethane | 2500 | 1860 | | ug/Kg | | 74 | 73 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 | 2270 | | ug/Kg | | 91 | 10 - 179 |
| 1,1,2-Trichloroethane | 2500 | 2100 | | ug/Kg | | 84 | 80 - 120 |
| 1,1-Dichloroethane | 2500 | 2300 | | ug/Kg | | 92 | 78 - 121 |
| 1,1-Dichloroethene | 2500 | 2290 | | ug/Kg | | 92 | 48 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2060 | | ug/Kg | | 82 | 70 - 140 |
| 1,2,4-Trimethylbenzene | 2500 | 2240 | | ug/Kg | | 90 | 77 - 127 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-452255/1-A**
**Matrix: Solid**
**Analysis Batch: 452307**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452255**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-Chloropropane | 2500 | 1730 | | ug/Kg | | 69 | 56 - 122 |
| 1,2-Dibromoethane | 2500 | 2040 | | ug/Kg | | 82 | 80 - 120 |
| 1,2-Dichlorobenzene | 2500 | 2160 | | ug/Kg | | 86 | 78 - 125 |
| 1,2-Dichloroethane | 2500 | 2140 | | ug/Kg | | 86 | 74 - 127 |
| 1,2-Dichloropropane | 2500 | 2160 | | ug/Kg | | 87 | 80 - 120 |
| 1,3,5-Trimethylbenzene | 2500 | 2250 | | ug/Kg | | 90 | 79 - 120 |
| 1,3-Dichlorobenzene | 2500 | 2060 | | ug/Kg | | 82 | 80 - 120 |
| 1,4-Dichlorobenzene | 2500 | 2110 | | ug/Kg | | 85 | 80 - 120 |
| 2-Butanone (MEK) | 12500 | 10800 | | ug/Kg | | 86 | 54 - 149 |
| 2-Hexanone | 12500 | 9620 | | ug/Kg | | 77 | 59 - 127 |
| 4-Isopropyltoluene | 2500 | 2350 | | ug/Kg | | 94 | 80 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 12500 | 9680 | | ug/Kg | | 77 | 74 - 120 |
| Acetone | 12500 | 11100 | | ug/Kg | | 89 | 47 - 141 |
| Benzene | 2500 | 2190 | | ug/Kg | | 88 | 77 - 125 |
| Bromodichloromethane | 2500 | 2160 | | ug/Kg | | 87 | 71 - 121 |
| Bromoform | 2500 | 2110 | | ug/Kg | | 84 | 48 - 125 |
| Bromomethane | 2500 | 2080 | | ug/Kg | | 83 | 39 - 149 |
| Carbon disulfide | 2500 | 1830 | | ug/Kg | | 73 | 40 - 136 |
| Carbon tetrachloride | 2500 | 2300 | | ug/Kg | | 92 | 54 - 135 |
| Chlorobenzene | 2500 | 2210 | | ug/Kg | | 88 | 76 - 126 |
| Chloroethane | 2500 | 2680 | | ug/Kg | | 107 | 23 - 150 |
| Chloroform | 2500 | 2270 | | ug/Kg | | 91 | 78 - 120 |
| Chloromethane | 2500 | 1950 | | ug/Kg | | 78 | 61 - 124 |
| cis-1,2-Dichloroethene | 2500 | 2150 | | ug/Kg | | 86 | 79 - 124 |
| cis-1,3-Dichloropropene | 2500 | 2140 | | ug/Kg | | 85 | 75 - 121 |
| Cyclohexane | 2500 | 2430 | | ug/Kg | | 97 | 49 - 129 |
| Dibromochloromethane | 2500 | 2080 | | ug/Kg | | 83 | 64 - 120 |
| Dichlorodifluoromethane | 2500 | 2010 | | ug/Kg | | 80 | 10 - 150 |
| Ethylbenzene | 2500 | 2200 | | ug/Kg | | 88 | 78 - 124 |
| Isopropylbenzene | 2500 | 2260 | | ug/Kg | | 90 | 76 - 120 |
| m,p-Xylene | 2500 | 2300 | | ug/Kg | | 92 | 77 - 125 |
| Methyl acetate | 5000 | 4010 | | ug/Kg | | 80 | 71 - 123 |
| Methyl tert-butyl ether | 2500 | 2080 | | ug/Kg | | 83 | 67 - 137 |
| Methylcyclohexane | 2500 | 2580 | | ug/Kg | | 103 | 50 - 130 |
| Methylene Chloride | 2500 | 1970 | | ug/Kg | | 79 | 75 - 118 |
| n-Butylbenzene | 2500 | 2340 | | ug/Kg | | 94 | 80 - 120 |
| N-Propylbenzene | 2500 | 2220 | | ug/Kg | | 89 | 76 - 120 |
| o-Xylene | 2500 | 2170 | | ug/Kg | | 87 | 80 - 124 |
| sec-Butylbenzene | 2500 | 2330 | | ug/Kg | | 93 | 79 - 120 |
| Styrene | 2500 | 2120 | | ug/Kg | | 85 | 80 - 120 |
| tert-Butylbenzene | 2500 | 2260 | | ug/Kg | | 90 | 78 - 120 |
| Tetrachloroethene | 2500 | 2290 | | ug/Kg | | 92 | 73 - 133 |
| Toluene | 2500 | 2120 | | ug/Kg | | 85 | 75 - 124 |
| trans-1,2-Dichloroethene | 2500 | 2160 | | ug/Kg | | 87 | 74 - 129 |
| trans-1,3-Dichloropropene | 2500 | 2080 | | ug/Kg | | 83 | 73 - 120 |
| Trichloroethene | 2500 | 2190 | | ug/Kg | | 88 | 75 - 131 |
| Trichlorofluoromethane | 2500 | 2520 | | ug/Kg | | 101 | 29 - 158 |
| Vinyl chloride | 2500 | 2110 | | ug/Kg | | 84 | 59 - 124 |

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-452255/1-A**
**Matrix: Solid**
**Analysis Batch: 452307**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 452255**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 53 - 146 |
| 4-Bromofluorobenzene (Surr) | 106 | | 49 - 148 |
| Dibromofluoromethane (Surr) | 101 | | 60 - 140 |
| Toluene-d8 (Surr) | 99 | | 50 - 149 |

## GC/MS VOA

### Analysis Batch: 452093

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147085-1 | SB-25 (5-7) | Total/NA | Solid | 8260C | 452103 |
| 480-147085-2 | SB-29 (5-6) | Total/NA | Solid | 8260C | 452103 |
| MB 480-452103/2-A | Method Blank | Total/NA | Solid | 8260C | 452103 |
| LCS 480-452103/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 452103 |

### Prep Batch: 452103

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147085-1 | SB-25 (5-7) | Total/NA | Solid | 5035A_L | |
| 480-147085-2 | SB-29 (5-6) | Total/NA | Solid | 5035A_L | |
| MB 480-452103/2-A | Method Blank | Total/NA | Solid | 5035A_L | |
| LCS 480-452103/1-A | Lab Control Sample | Total/NA | Solid | 5035A_L | |

### Analysis Batch: 452238

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147085-3 | TMW-3 | Total/NA | Water | 8260C | |
| 480-147085-4 | TMW-4 | Total/NA | Water | 8260C | |
| MB 480-452238/28 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-452238/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| 480-147085-4 MS | TMW-4 | Total/NA | Water | 8260C | |
| 480-147085-4 MSD | TMW-4 | Total/NA | Water | 8260C | |

### Prep Batch: 452255

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147085-1 - DL | SB-25 (5-7) | Total/NA | Solid | 5035A_H | |
| 480-147085-2 - DL | SB-29 (5-6) | Total/NA | Solid | 5035A_H | |
| MB 480-452255/2-A | Method Blank | Total/NA | Solid | 5035A_H | |
| LCS 480-452255/1-A | Lab Control Sample | Total/NA | Solid | 5035A_H | |

### Analysis Batch: 452307

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147085-1 - DL | SB-25 (5-7) | Total/NA | Solid | 8260C | 452255 |
| 480-147085-2 - DL | SB-29 (5-6) | Total/NA | Solid | 8260C | 452255 |
| MB 480-452255/2-A | Method Blank | Total/NA | Solid | 8260C | 452255 |
| LCS 480-452255/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 452255 |

## General Chemistry

### Analysis Batch: 452217

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-147085-1 | SB-25 (5-7) | Total/NA | Solid | Moisture | |
| 480-147085-2 | SB-29 (5-6) | Total/NA | Solid | Moisture | |

## Client Sample ID: SB-25 (5-7)

**Lab Sample ID: 480-147085-1**
**Matrix: Solid**
**Date Collected: 12/18/18 11:00**
**Date Received: 12/20/18 11:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 452217 | 12/22/18 00:00 | AEM | TAL BUF |

## Client Sample ID: SB-25 (5-7)

**Lab Sample ID: 480-147085-1**
**Matrix: Solid**
**Date Collected: 12/18/18 11:00**
**Date Received: 12/20/18 11:30**
**Percent Solids: 83.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 452103 | 12/21/18 11:00 | LCH | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 452093 | 12/21/18 14:44 | LCH | TAL BUF |
| Total/NA | Prep | 5035A_H | DL | | 452255 | 12/22/18 14:35 | OMI | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 20 | 452307 | 12/24/18 12:19 | AMM | TAL BUF |

## Client Sample ID: SB-29 (5-6)

**Lab Sample ID: 480-147085-2**
**Matrix: Solid**
**Date Collected: 12/18/18 15:00**
**Date Received: 12/20/18 11:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 452217 | 12/22/18 00:00 | AEM | TAL BUF |

## Client Sample ID: SB-29 (5-6)

**Lab Sample ID: 480-147085-2**
**Matrix: Solid**
**Date Collected: 12/18/18 15:00**
**Date Received: 12/20/18 11:30**
**Percent Solids: 83.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 452103 | 12/21/18 11:00 | LCH | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 452093 | 12/21/18 15:10 | LCH | TAL BUF |
| Total/NA | Prep | 5035A_H | DL | | 452255 | 12/22/18 14:35 | OMI | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 1 | 452307 | 12/24/18 12:46 | AMM | TAL BUF |

## Client Sample ID: TMW-3

**Lab Sample ID: 480-147085-3**
**Matrix: Water**
**Date Collected: 12/19/18 10:00**
**Date Received: 12/20/18 11:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 4 | 452238 | 12/22/18 15:37 | AMM | TAL BUF |

## Client Sample ID: TMW-4

**Lab Sample ID: 480-147085-4**
**Matrix: Water**
**Date Collected: 12/19/18 10:30**
**Date Received: 12/20/18 11:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 20 | 452238 | 12/22/18 16:04 | AMM | TAL BUF |

# Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
TestAmerica Job ID: 480-147085-1
Project/Site: Benchmark - 1200 Jefferson St

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-19 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

# Method Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| Moisture | Percent Moisture | EPA | TAL BUF |
| 5030C | Purge and Trap | SW846 | TAL BUF |
| 5035A_H | Closed System Purge and Trap | SW846 | TAL BUF |
| 5035A_L | Closed System Purge and Trap | SW846 | TAL BUF |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - 1200 Jefferson St

TestAmerica Job ID: 480-147085-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-147085-1 | SB-25 (5-7) | Solid | 12/18/18 11:00 | 12/20/18 11:30 |
| 480-147085-2 | SB-29 (5-6) | Solid | 12/18/18 15:00 | 12/20/18 11:30 |
| 480-147085-3 | TMW-3 | Water | 12/19/18 10:00 | 12/20/18 11:30 |
| 480-147085-4 | TMW-4 | Water | 12/19/18 10:30 | 12/20/18 11:30 |

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

# Chain of Custody Record 306152

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

| Client Contact | Project Manager: Nate Morles | Site Contact: Nick Sorsi | Date: 12/19/18 | COC No: |
|---|---|---|---|---|
| Company Name: Turnkey Env Restoration | Tel/Fax: 716-713-3437 | Lab Contact: Brian Fuller | Carrier: | of COCs |
| Address: 2558 Hamburg Tpke | Analysis Turnaround Time | | | Sampler: |
| City/State/Zip: Buffalo, NY 14218 | ☐ CALENDAR DAYS ☐ WORKING DAYS | | | For Lab |
| Phone: 716-713-3437 | TAT if different from Below | | | Walk-in |
| Fax: | ☐ 2 weeks | | | Lab Sa |
| Project Name: 1200 Jefferson Site | ☐ 1 week | | | Job / |
| Site: | ☐ 2 days | | | 480-147085 CO |
| PO# 0279-018-001 | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS / MSD (Y/N) | TCL+CP-SI VOA's | TCL+CP-SI WAS | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| SB-25 (5-7') | 12/19/18 | 11:00 | G | Soil | 1 | | | X | | |
| SB-29 (5-6') | 12/19/18 | 15:00 | G | Soil | 1 | | | X | | |
| TMW-3 | 12/19/18 | 10:00 | G | Water | 3 | | | | X | |
| TMW-4 | 12/19/18 | 10:30 | G | Water | 3 | | | | X | |

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1 2

**Possible Hazard Identification:**
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

**Special Instructions/QC Requirements & Comments:**
Seperate report each COC

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Company: BMTK | Date/Time: 12/19/18 14:00 | Received by: | Company: TAL | Date/Time: 12/20/18 09:30 |
| Relinquished by: | Company: TAL | Date/Time: 12/20/18 11:30 | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: TAL | Date/Time: 12/20/18 1130 |

4.8 #1

# Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-147085-1

**Login Number: 147085**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Harper, Marcus D**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | TER |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

# APPENDIX B
# HEALTH AND SAFETY PLAN (HASP) INCLUDING CAMP

# Health and Safety Plan for Brownfield Site Investigation

# 1200 Jefferson Avenue Site
# BCP Site No. BCP SITE NO. C915346

# 1200 Jefferson Avenue Buffalo, NY 14208

Prepared by

C&S Engineers, Inc.
141 Elm Street, Suite 100
Buffalo, New York 14203

September 2021

## DISCLAIMER

This document will address health and safety considerations for all those activities that personnel employed by C&S Engineers, Inc., may be engaged in during site investigation and remediation work. Every contractor is expected to prepare and implement their own site-specific health and safety plan. This document may be used as a general outline to inform the creation of other health and safety plans for this NYSDEC Brownfield site.

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## FIGURES

Figure 1 Site Location

Figure 2 Site Aerial Photo

## ATTACHMENTS

Attachment A – Map and Directions to Hospital

## APPENDICES

Appendix A – Excavation/Trenching Guideline

Appendix B – Guidance on Incident Investigation and Reporting

Appendix C – Community Air Monitoring Plan (CAMP)

## SECTION 1 – GENERAL INFORMATION

The Health and Safety Plan (HASP) described in this document will address health and safety considerations for all those activities that personnel employed by C&S Engineers, Inc., may be engaged in during site investigation and remediation work at the 1200 Jefferson Avenue Site, located on one parcal at 1200 Jefferson Avenue in Buffalo, Erie County, New York (Site). Figure 1 shows the approximate location of the Site. This HASP will be implemented by the Field Team Leader/ Site Safety and Health Officer (FTL/SSHO) during site work.

Compliance with this HASP is required of all C&S personnel who enter this Site. The content of the HASP may change or undergo revision based upon additional information made available to the health, safety, and training (H&S) committee, monitoring results or changes in the technical scope of work. Any changes proposed must be reviewed by the H&S committee.

**Responsibilities**

| | |
|---|---|
| Project Manager…….. | Alexander Brennen<br>Phone: (716) 847-1630<br>Cell: (716) 946-9133 |
| Field Team Leader / Site Safety and Health Officer…….. | Alexander Brennen<br>Phone: (716) 847-1630<br>Cell: (716) 946-9133 |
| Emergency Coordinator…….. | Daniel E. Riker<br>Phone: (716) 847-1630<br>Cell: (716) 572-5312 |
| Health and Safety Manager…… | Daniel E. Riker<br>Phone: (716) 847<br>Cell: (716) 572-5312 |

**Emergency Phone Numbers**

Emergency Medical Service .....911

Police: Buffalo Police Department (BPD) .....911

Hospital: Buffalo General Hospital.....(716) 859-5600

| | |
|---|---|
| Fire: Buffalo Fire Department | 911 |
| National Response Center | (800) 424-8802 |
| Poison Control Center | (800) 222-1222 |
| Center for Disease Control | (800) 311-3435 |
| NYSDEC Region 9 (Buffalo, New York) | (716) 851-7220 |
| C&S Engineers | (716) 847-1630 |
| Site Superintendent | TBD |
| Project Field Office Trailer | (716) 847-1630 |

# SECTION 2 - HEALTH AND SAFETY PERSONNEL

## 2.0 Health and Safety Personnel Designations

The following information briefly describes the health and safety designations and general responsibilities for this Site.

## 2.1 Project Manager (PM)

The PM is responsible for the overall project including the implementation of the HASP. Specifically, this includes allocating adequate manpower, equipment, and time resources to conduct Site activities safely.

## 2.2 Health and Safety Manager

- Has the overall responsibility for coordinating and reporting all health and safety activities and the health and safety of Site Workers.
- Must have completed, at a minimum, the OSHA 30-Hour Construction Safety Training, and either the 24-Hour training course for the Occasional Hazardous Waste Site Worker or the 40-Hour training course for the Hazardous Waste Operations Worker that meets OHSA 29 CFR 1910.
- Must have completed the 8-Hour Site supervisor/manager's course for supervisors and managers having responsibilities for hazardous waste Site operations and management.

- Directs and coordinates health and safety monitoring activities.
- Ensures that field teams utilize proper personal protective equipment (PPE).
- Conducts initial on-site specific training prior to Site Workers commencing work.
- Conducts and documents daily and periodic safety briefings.
- Ensures that field team members comply with this HASP.
- Immediately notifies the Construction Manager (CM) Project Manager and Superintendent of all accident/incidents.
- Determines upgrading or downgrading of PPE based on Site conditions and/or real time monitoring results.
- Ensures that monitoring instruments are calibrated daily or as the manufacturer's instructions determine.
- Reports to the CM Project Manager and Superintendent to provide summaries of field operations and progress.
- Submits and maintains all documentation required in this HASP and any other pertinent health and safety documentation.

### 2.3 Site Safety and Health Officer (SSHO)

- Must be designated to the Health and Safety Manager by each Subcontractor as a Competent Person having, at a minimum, the OSHA 30-Hour Construction Safety Training
- Must schedule and attend a Pre-Construction Safety Meeting with the Health and Safety Manager to discuss the Subcontractor Safety Requirements and must attend the Weekly Subcontractor Coordination Meeting.

- Responsible for ensuring that their lower tier contractors comply with project safety requirements.

- Must make frequent and regular inspections of their work areas and activities and ensure hazards that are under their control are corrected immediately and all other hazards are reported to the Construction Manager's Project Manager and Health and Safety Manager.

- Must report all work related injuries, regardless of severity, to the Construction Manager's Project Manager and the Health and Safety Manager within 24 hours after they occur.

## 2.4 Emergency Coordinator

- The Emergency Coordinator or his on-site designee will, in coordination with 1200 Jefferson Properties, LLC., implement the emergency response procedures whenever conditions at the Site warrant such action.

- The Emergency Coordinator or his on-site designee will be responsible for assuring the evacuation, emergency treatment, emergency transport of C&S personnel as necessary, and notification of emergency response units (refer to phone listing in the beginning of this HASP) and the appropriate management staff.

## 2.5 Site Workers

- Report any unsafe or potentially hazardous conditions to the Health and Safety Manager.

- Maintain knowledge of the information, instructions, and emergency response actions contained in the HASP.

- Comply with rules, regulations, and procedures as set forth in this HASP, including any revisions that are instituted.

- Prevent unauthorized personnel from entering work Site.

# SECTION 3 - PERTINENT SITE INFORMATION

## 3.1 Site Location and General History

The Site consists of a 0.93-acre parcel, located on the western side of Jefferson Avenue, bordered by Eaton Street to the north and Northampton Street to the south. The Site includes one (1) existing building on the southern portion of the Site and vacant grass covered area to the north, and asphalt covered alleyway on the west side.

*Site History and Suspect Recognized Environmental Conditions*

Historic on-Site operations include dry cleaning and laundry service(s), automobile transportation and repair service, paint and varnish shop, metal works shop since at least the1910's. At least three (3) underground storage tanks (USTs) have been installed on-Site, with municipal records indicating an 8,000-gallon UST which is closed-in-place beneath the existing building.

The Site was identified in the NYSDEC Chemical Bulk Storage (CBS) database (9-000157) and the NYSDEC Spill database with 8902796, 9305238, 9501902, and 1710381 identified for the Site. Spill No. 1710381 remains open and will be investigated as part of the RI Work Plan.

Previous environmental investigations completed at the Site have identified grossly contaminated petroleum soils proximate to both tank locations. Elevated chlorinated volatile organic compounds (cVOCs) exceeding 6NYCRR Part 375 Protection of Groundwater Soil Cleanup Objectives (PGSCOs), Unrestricted Use SCOs (USCOs), and Restricted-Residential Use Soil Cleanup Objectives (RRSCOs), and groundwater impacts exceeding NYSDEC Class GA Groundwater Quality Standards (GWQS) likely related to former dry-cleaning operations. Petroleum VOCs at concentrations exceeding USCOs and RRSCOs were identified at numerous locations. Elevated metals exceeding USCOS, RRSCOS, Commercial Use SCO (CSCOs) and Industrial Use SCOs (ISCOs) were also identified in soil-fill identified across the Site.

Findings of the Phase II ESA conducted at the Site are detailed below:

- Grossly contaminated petroleum soils were detected on Site, including visual product on the soil cutting sleeve at SB-11 (downgradient of closed in-place 8,000-gallon UST), odors and elevated PID readings at four (4) locations.
- Elevated chlorinated VOCs, likely related to the former dry-cleaning operations onsite, were detected in soil samples exceeding Protection of Groundwater SCOs.
- Elevated petroleum VOCs were detected in soil samples exceeding USCO and RRSCOs at several locations.
- Elevated chlorinated VOCs were detected in groundwater samples exceeding groundwater quality standards (GWQS), including tetrachloroethene (PCE), trichloroethene (TCE), dichloroethene (DCE) and vinyl chloride (VC).
- Shallow fill material, including brick, block, cinders and ash were detected across the site, ranging in depth from 0-10 fbgs.
- Elevated metals, including arsenic, barium, and chromium were detected in soil exceeding ISCOs, CSCOs, and RRSCOs, respectively. Elevated lead and mercury were detected above USCOs at multiple locations.
- Based on the presence of elevated chlorinated VOCs exceeding SCGs in soil and groundwater, including beneath the existing building and downgradient location, indicates the likely presence of dry-cleaning related contamination beneath the existing building.
- Based on the findings of this investigation, additional investigation and remediation appears warranted prior to Site redevelopment. TurnKey recommended completing a Soil Vapor Intrusion (SVI) assessment of the existing building, based on the presence of chlorinated VOCs in soil and groundwater beneath the building.
- Based on results of the Limited Phase II investigation, Spill No. 1710381 was issued with the NYSDEC and is currently classified as "open."

# SECTION 5 - TRAINING

## 5.1 Site-specific Training

Training will be provided that specifically addresses the activities, procedures, monitoring, and equipment for the Site operations prior to going on site. Training will include familiarization with Site and facility layout, known and potential hazards, and emergency services at the Site, and details all provisions contained within this HASP. This training will also allow Site Workers to clarify anything they do not understand and to reinforce their responsibilities regarding safety and operations for their particular activity.

### 5.2 Safety Briefings

C&S project personnel will be given briefings by the SSHO on a daily or as needed basis to further assist Site Workers in conducting their activities safely. Pertinent information will be provided when new operations are to be conducted. Changes in work practices must be implemented due to new information made available, or if Site or environmental conditions change. Briefings will also be given to facilitate conformance with prescribed safety practices. When conformance with these practices is not occurring or if deficiencies are identified during safety audits, the project manager will be notified.

## SECTION 6 - PERSONAL PROTECTIVE EQUIPMENT

### 6.1 General

The level of protection to be worn by field personnel will be defined and controlled by the SSHO. Depending upon the type and levels of material present or anticipated at the site, varying degrees of protective equipment will be needed. If the possible hazards are unknown, a reasonable level of protection will be taken until sampling and monitoring results can ascertain potential risks. The levels of protection listed below are based on USEPA Guidelines. A list of the appropriate clothing for each level is also provided.

Level A protection must be worn when a reasonable determination has been made that the highest available level of respiratory, skin, eye, and mucous membrane protection is needed. It should be noted that while Level A provides maximum available protection, it does not protect against all possible hazards. Consideration of the heat stress that can arise from wearing Level A protection should also enter into the decision making process. Level A protection includes:

- Open circuit, pressure-demand self-contained breathing apparatus (SCBA)
- Totally encapsulated chemical resistant suit
- Gloves, inner (surgical type)
- Gloves, outer, chemical protective
- Boots, chemical protective

Level B protection must be used when the highest level of respiratory protection is needed, but hazardous material exposure to the few unprotected areas of the body (e.g., the back of the neck) is unlikely. Level B protection includes:

- Open circuit, pressure-demand SCBA or pressure airline with escape air bottle
- Chemical protective clothing: Overalls and long sleeved jacket; disposal chemical resistant coveralls; coveralls; one or two piece chemical splash suit with hood
- Gloves, inner (surgical type)
- Gloves, outer, chemical protective
- Boots, chemical protective

Level C must be used when the required level of respiratory protection is known, or reasonably assumed to be, not greater than the level of protection afforded by air purifying respirators; and hazardous materials exposure to the few unprotected areas of the body (e.g.., the back of the neck) is unlikely. Level C protection includes:

- Full or half face air-purifying respirator
- Chemical protective clothing: Overalls and long-sleeve jacket; disposable chemical resistant coveralls; coveralls; one or two piece chemical splash suit
- Gloves, inner (surgical type)
- Gloves, outer, chemical protective
- Boots, chemical protective

Level D is the basic work uniform. It cannot be worn on any site where respiratory or skin hazards exist. Level D protection includes:

- Safety boots/shoes
- Safety glasses
- Hard hat with optional face shield

Note that the use of SCBA and airline equipment is contingent upon the user receiving special training in the proper use and maintenance of such equipment.

### 6.2 Personal Protective Equipment – Site Specific

Level D with some modification will be required when working in the work zone on this Site. In addition to the basic work uniform specified by Level D protection, Nitrile gloves will be required when contact with soil or ground water is likely. Hearing protection will be worn when power equipment is used to perform subsurface investigation work. An upgrade to a higher level (Level C) of protection may occur if determined necessary by the SSHO.

## SECTION 7 - MONITORING PROCEDURES

### 7.1 Monitoring During Site Operations

All Site environmental monitoring should be accompanied by periodic meteorological monitoring of appropriate climatic conditions.

#### 7.1.1 Drilling Operations (Monitoring Well Installation and Subsurface Borings) and Test Pit Excavations

Monitoring will be performed by the SSHO or drilling observer during the conduct of work. A photoionization detector (PID) equipped with a 11.7 eV lamp will be utilized to monitor for the presence of volatile organic vapors within the breathing zone, the borehole, and subsurface samples upon their retrieval. Drill cuttings and excavation spoils will also be monitored by use of the PID. The PID will be field checked for calibration accuracy three times per day (morning, lunch, and end of day). If subsurface conditions warrant, a combustible gas indicator (CGI) with oxygen alarm may also be used to monitor the borehole for the presence of combustible gases. Similar monitoring of fluids produced during well development will also be conducted.

#### 7.1.2 Interim Remedial Measures

If future Interim Remedial Measures (IRM) occurs, monitoring will be performed during excavation and sampling operations when C&S personnel are within the work zone. Although historical information previously obtained at the Site indicates low level of volatile organic vapors and compounds, a photoionization detector (PID) will be used during

subsurface activities. If an IRM is performed, the, the remedial contractor will be required to employ dust control practices during work.

### 7.2 Action Levels

If readings on the PID exceed 10 ppm for more than fifteen minutes consecutively, then personal protective equipment should be upgraded to Level C. The air purifying respirator used with Level C protective equipment must be equipped with organic vapor cartridges. If readings on the explosive gas meter are within a range of 10%-25% of the LEL then continuous monitoring will be implemented. Readings above 25% of the LEL indicate the potential for an explosive condition. Sources of ignition should be removed and the Site should be evacuated.

### 7.3 Personal Monitoring Procedures

Personal monitoring shall be performed as a contingency measure in the event that VOC concentrations are consistently above the 10 ppm action level as detected by the PID. If the concentration of VOCs is above this action level, then amendments to the HASP must be made before work can continue at the Site.

## SECTION 8 - COMMUNICATIONS

A phone will be located on Site to be utilized by personnel conducting investigation and IRM efforts. Cell phones will be the primary means of communicating with emergency support services/facilities.

## SECTION 9 - SAFETY CONSIDERATIONS FOR SITE OPERATIONS

### 9.1 General

Standard safe work practices that will be followed include:

- Do not climb over/under drums, or other obstacles.
- Do not enter the work zone alone.
- Practice contamination avoidance, on and off-site.

- Plan activities ahead of time, use caution when conducting concurrently running activities.
- No eating, drinking, chewing or smoking is permitted in work zones.
- Due to the unknown nature of waste placement at the Site, extreme caution should be practiced during excavation activities.
- Apply immediate first aid to any and all cuts, scratches, abrasions, etc.
- Be alert to your own physical condition. Watch your buddy for signs of fatigue, exposure, etc.
- A work/rest regimen will be initiated when ambient temperatures and protective clothing create a potential heat stress situation.
- No work will be conducted without adequate natural light or without appropriate supervision.
- Task safety briefings will be held prior to onset of task work.
- Ignition of flammable liquids within or through improvised heating devices (barrels, etc.) or space heaters is forbidden.
- Entry into areas of spaces where toxic or explosive concentrations of gases or dust may exist without proper equipment is prohibited.
- Any injury or unusual health effect must be reported to the Site health and safety officer.
- Prevent splashing or spilling of potentially contaminated materials.
- Use of contact lenses is prohibited while on site.
- Beards and other facial hair that would impair the effectiveness of respiratory protection are prohibited if respiratory protection is necessary.
- Field crew members should be familiar with the physical characteristics of investigations, including:
  - Wind direction in relation to potential sources
  - Accessibility to co-workers, equipment, and vehicles
  - Communication
  - Hot zones (areas of known or suspected contamination)
  - Site access
  - Nearest water sources
- The number of personnel and equipment in potentially contaminated areas should be minimized consistent with site operations.

### 9.2 Field Operations

#### 9.2.1 Intrusive Operations

The SSHO or their designee will be present on-site during all intrusive work, e.g., drilling operations, excavations, trenching, and will provide monitoring to oversee that appropriate levels of protection and safety procedures are utilized by C&S Engineers, Inc., personnel. The use of salamanders or other equipment with an open flame is prohibited and the use of protective clothing, especially hard hats and boots, will be required during drilling or other heavy equipment operations.

#### 9.2.2 Excavations and Excavation Trenching

Guidance relating to safe work practices for C&S employees regarding excavations and excavating/trenching operation is presented in Appendix A of this HASP.

## SECTION 10 - DECONTAMINATION PROCEDURES

Decontamination involves physically removing contaminants and/or converting them chemically into innocuous substances. Only general guidance can be given on methods and techniques for decontamination. Decontamination procedures are designed to:

- Remove contaminant(s).
- Avoid spreading the contamination from the work zone.
- Avoid exposing unprotected personnel outside of the work zone to contaminants.

Contamination avoidance is the first and best method for preventing spread of contamination from a hazardous site. Each person involved in site operations must practice the basic methods of contamination avoidance listed below. Additional precautions may be required in the HASP.

- Know the limitations of all protective equipment being used.
- Do not enter a contaminated area unless it is necessary to carry out a specific objective.
- When in a contaminated area, avoid touching anything unnecessarily.

- Walk around pools of liquids, discolored areas, or any area that shows evidence of possible contamination.
- Walk upwind of contamination, if possible.
- Do not sit or lean against anything in a contaminated area. If you must kneel (e.g., to take samples), use a plastic ground sheet.
- If at all possible, do not set sampling equipment directly on contaminated areas. Place equipment on a protective cover such as a ground cloth.
- Use the proper tools necessary to safely conduct the work.

Specific methods that may reduce the chance of contamination are:

- Use of remote sampling techniques.
- Opening containers by non-manual means.
- Bagging monitoring instruments.
- Use of drum grapplers.
- Watering down dusty areas.

Equipment which will need to be decontaminated includes tools, monitoring equipment, and personal protective equipment. Items to be decontaminated will be brushed off, rinsed, and dropped into a plastic container supplied for that purpose. They will then be washed with a detergent solution and rinsed with clean water. Monitoring instruments may be wrapped in plastic bags prior to entering the field in order to reduce the potential for contamination. Instrumentation that is contaminated during field operations will be carefully wiped down. Heavy equipment, if utilized for operations where it may be contaminated, will have prescribed decontamination procedures to prevent contaminant materials from potentially leaving the Site. On-site contractors, such as drillers or backhoe operators, will be responsible for decontaminating all construction equipment prior to demobilization.

## SECTION 11 – DISPOSAL PROCEDURES

All discarded materials, waste materials, or other objects shall be handled in such a way as to reduce or eliminate the potential for spreading contamination, creating a sanitary hazard, or causing litter to be left on-site. All potentially contaminated materials, e.g., clothing,

gloves, etc., will be bagged or drummed as necessary and segregated for proper disposal. All contaminated waste materials shall be disposed of as required by the provisions included in the contract and consistent with regulatory provisions. All non-contaminated materials shall be collected and bagged for appropriate disposal. Investigation derived waste will be managed consistent with the work plan for this Site and DER-10 Technical Guidance for Site Investigation and Remediation dated May 2010.

## SECTION 12 - EMERGENCY RESPONSE PROCEDURES

As a result of the hazards at the Site, and the conditions under which operations are conducted, there is the possibility of emergency situations. This section establishes procedures for the implementation of an emergency plan.

### 12.1 Emergency Coordinator

*Emergency Coordinator:…… Daniel E. Riker*

*Work Phone: (716) 847-1630*

The Emergency Coordinator or his on-site designee will, in concert with 1200 Jefferson Properties, LLC, implement the emergency response procedures whenever conditions at the Site warrant such action. The Emergency Coordinator or his on-site designee will be responsible for assuring the evacuation, emergency treatment, emergency transport of C&S personnel as necessary, and notification of emergency response units (refer to phone listing in the beginning of this HASP) and the appropriate management staff.

### 12.2 Evacuation

In the event of an emergency situation, such as fire, explosion, significant release of toxic gases, etc., all personnel will evacuate and assemble in a designated assembly area. The Emergency Coordinator or his on-site designee will have authority to contact outside services as required. Under no circumstances will incoming personnel or visitors be allowed to proceed into the area once the emergency signal has been given. The Emergency Coordinator or his on-site designee must see that access for emergency equipment is provided and that all ignition sources have been shut down once the emergency situation is

established. Once the safety of all personnel is established, the Fire Department and other emergency response groups will be notified by telephone of the emergency.

### 12.3 Potential or Actual Fire or Explosion

Immediately evacuate the Site and notify local fire and police departments, and other appropriate emergency response groups, if LEL values are above 25% in the work zone or if an actual fire or explosion has taken place.

### 12.4 Environmental Incident (spread or release of contamination)

Control or stop the spread of contamination if possible. Notify the Emergency Coordinator and the Project Manager. Other appropriate response groups will be notified as appropriate.

### 12.5 Personnel Injury

Emergency first aid shall be applied on-site as necessary. Then, decontaminate (en route if necessary) and transport the individual to nearest medical facility if needed. The ambulance/rescue squad shall be contacted for transport as necessary in an emergency. The directions to the hospital are shown in Section 1 of this HASP and a map is shown in Attachment A.

### 12.6 Personnel Exposure

- *Skin Contact*: Use copious amounts of soap and water. Wash/rinse affected area thoroughly, and then provide appropriate medical attention. Eyes should be thoroughly rinsed with water for at least 15 minutes.
- *Inhalation*: Move to fresh air and/or, if necessary, decontaminate and transport to emergency medical facility.
- *Ingestion*: Decontaminate and transport to emergency medical facility.
- *Puncture Wound/Laceration*: Decontaminate, if possible, and transport to emergency medical facility.

### 12.7 Adverse Weather Conditions

In the event of adverse weather conditions, the SSHO will determine if work can continue without sacrificing the health and safety of field workers.

### 12.8 Incident Investigation and Reporting

In the event of an incident, procedures discussed in the Medical Emergency/Incident Response Protocol, presented in Appendix B of this HASP, shall be followed.

## SECTION 13 - COMMUNITY RELATIONS

### 13.1 Community Health and Safety Plan

#### 13.1.1 Community Health and Safety Monitoring

As part of the site work, three general types of efforts are scheduled, including, non-intrusive reconnaissance tasks, sampling or monitoring tasks (monitoring point sampling), and intrusive tasks (test trenching, subsurface borings, monitoring well installation). During completion of general reconnaissance and sampling or monitoring tasks, potential for health and safety risks to off-site landowners or the local community are not anticipated.

During completion of intrusive efforts at or adjacent to the Site, health and safety monitoring efforts will be concentrated on the area or areas in which intrusive efforts are being completed. Since the air pathway is the most available and likely avenue for the release of potential contaminants to the atmosphere at or near the Site, in addition to limiting public or community access to the areas in which intrusive efforts are completed, health and safety measures will primarily consist of monitoring the air pathway for worker exposure.

#### 13.1.2 Community Air Monitoring Plan

Efforts will be taken to complete field work in a manner which will minimize the creation of airborne dust or particulates. Under dry conditions, work areas may be wetted to control dust. During periods of extreme wind, intrusive field work may be halted until such time as the potential for creating airborne dust or particulate matter as a result of investigation activities is limited. Periodic monitoring following the guidelines of the site's Community Air

Monitoring Plan (see Appendix C of this HASP) will be implemented during all non-intrusive Site investigation activities, including surface soil and sediment sampling, and collection of groundwater samples from groundwater monitoring wells.

During completion of Site investigation, a community air monitoring plan meeting the requirements of the site's Community Air Monitoring Plan (see Appendix C of this HASP) will be implemented for the duration of intrusive activities. These additional air monitoring activities will include establishment of background conditions, continuous monitoring for volatile organic compounds and/or particulates at the downwind work area (exclusion zone) perimeter, recording of monitoring data, and institution and documentation of Response Levels and appropriate actions in accordance with NYSDOH guidance.

## SECTION 14 - AUTHORIZATIONS

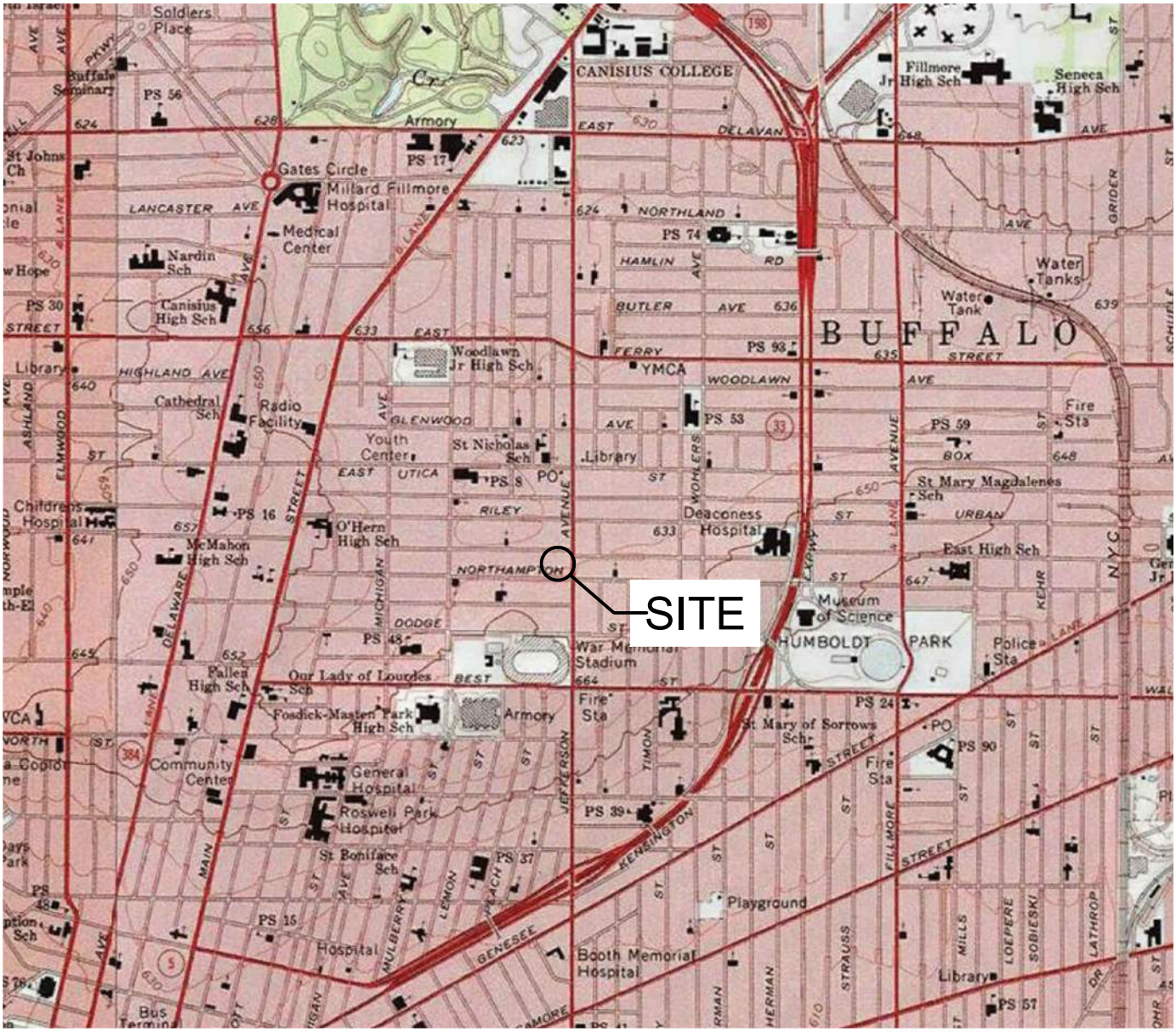
Personnel authorized to enter the Site while operations are being conducted must be approved by the SSHO. Authorization will involve completion of appropriate training courses, medical examination requirements, and review and sign-off of this HASP. No C&S personnel should enter the work zone alone. Each site visitor should check in with the SSHO or Project Manager prior to entering the work zones.

# FIGURE 1

***SITE LOCATION MAP***

C&S ENGINEERS

# FIGURE 1




N

2000' 0' 2000' 4000'

SCALE: 1 INCH = 2000 FEET
SCALE IN FEET
(approximate)




C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

| | |
|---|---|
| PROJECT NO.: | Y03.002.001 |
| DATE: | September 17 2021 |
| DRAFTED BY: | a. pliszka |

## SITE LOCATION AND VICINITY MAP

REMEDIAL INVESTIGATION
WORK PLAN

1200 JEFFERSON AVENUE SITE
BCP SITE NO. C915346
BUFFALO, NEW YORK

PREPARED FOR

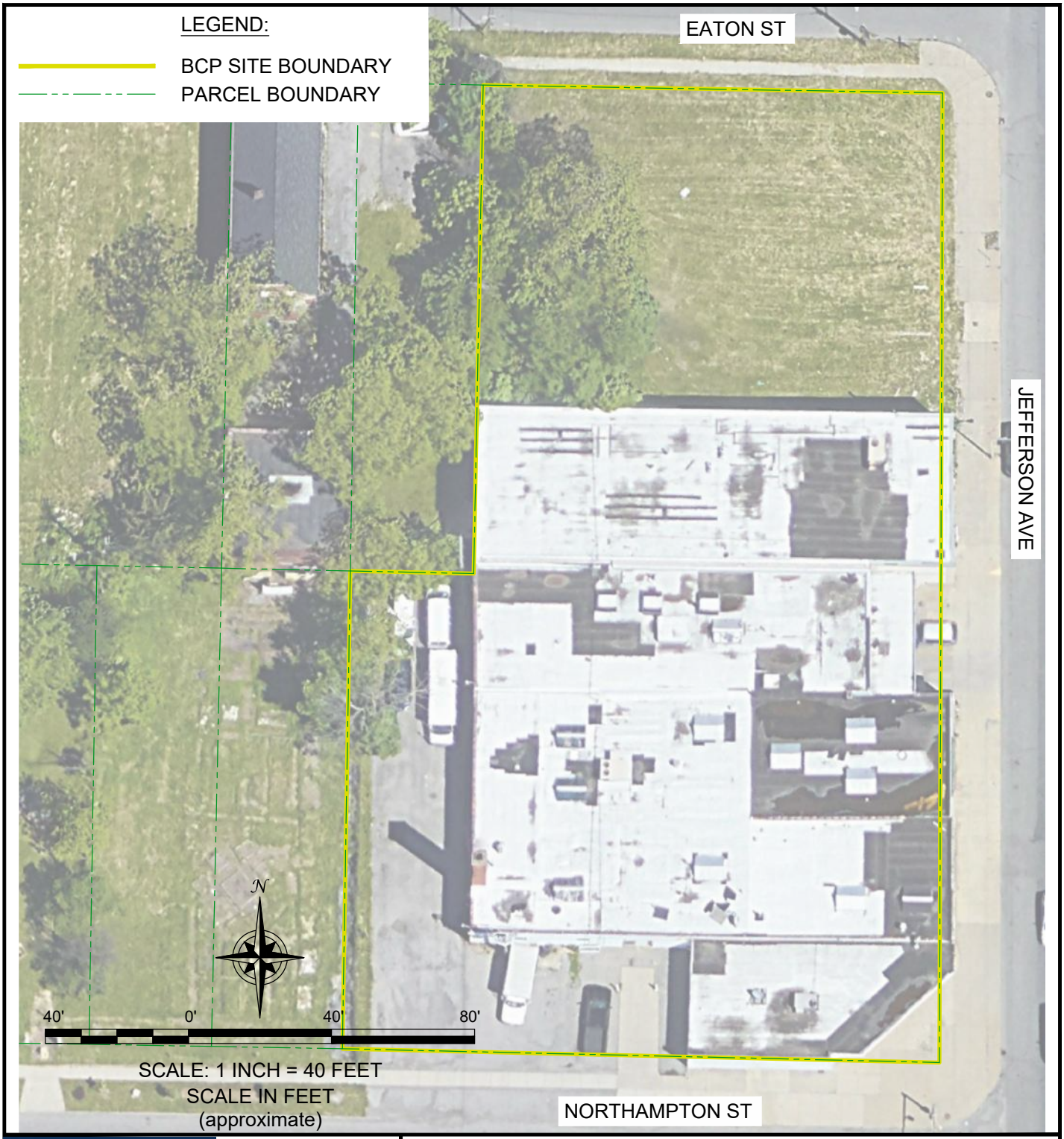
1200 JEFFERSON PROPERTIES, LLC

# FIGURE 2

***SITE AERIAL PHOTO***

C&S ENGINEERS

# FIGURE 2




C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

PROJECT NO.: Y03.002.001

DATE: September 17 2021

DRAFTED BY: a. pliszka

## SITE PLAN (AERIAL)

REMEDIAL INVESTIGATION
WORK PLAN

1200 JEFFERSON AVENUE SITE
BCP SITE NO. C915346
BUFFALO, NEW YORK

PREPARED FOR

1200 JEFFERSON PROPERTIES, LLC

# ATTACHMENT A

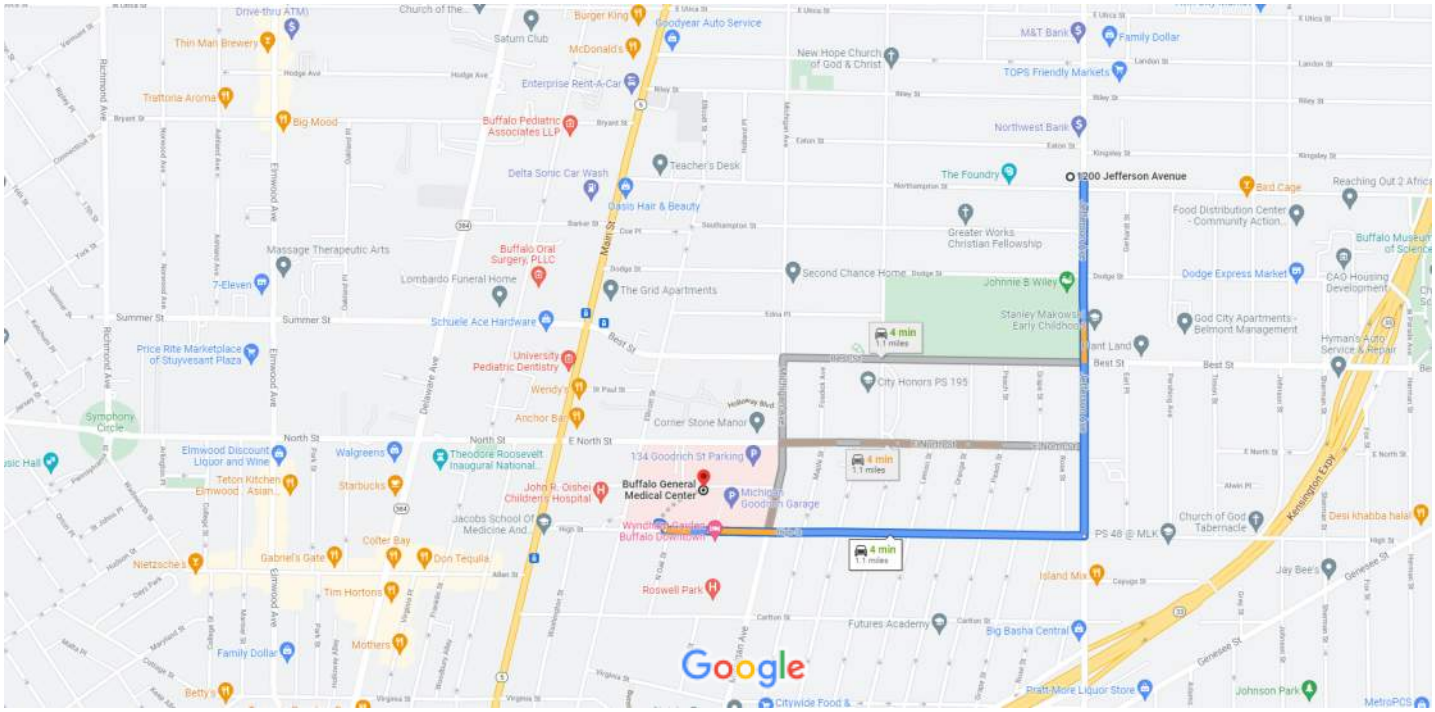
## *MAP TO HOSPITAL*

C&S ENGINEERS

Google Maps

# 1200 Jefferson Ave, Buffalo, NY 14208 to Buffalo General Medical Center

Drive 1.1 miles, 4 min




Map data ©2021 500 ft

## 1200 Jefferson Ave

Buffalo, NY 14208

1. Head south on Jefferson Ave toward Northampton St

0.5 mi

2. Turn right onto High St

0.6 mi

3. Turn right

92 ft

## Buffalo General Medical Center

100 High St, Buffalo, NY 14203

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

# Appendix A

***EXCAVATION/TRENCHING GUIDELINE***

C&S ENGINEERS

# C&S ENGINEERS, INC. HEALTH & SAFETY GUIDELINE #14
# EXCAVATION/TRENCHING OPERATIONS

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# C&S ENGINEERS, INC.
# EXCAVATION/TRENCHING OPERATIONS

## 1.0 PURPOSE

To establish safe operating procedures for excavation/trenching operations at C&S work sites.

## 2.0 SCOPE

Applies to all C&S activity where excavation or trenching operations take place.

## 3.0 DEFINITIONS

Excavation — Any manmade cavity or depression in the earth's surface, including its sides, walls, or faces, formed by earth removal and producing unsupported earth conditions by reasons of the excavation.

**Trench** — A narrow excavation made below the surface of the ground. In general, the depth is greater than the width, but the width of a trench is not greater than 15 feet.

## 4.0 RESPONSIBILITY EMPLOYEES

**Employees** — All employees must understand and follow the procedures outlined in this guideline during all excavation and trenching operations.

**Health and Safety Coordinator/Officer (HSC/HSO)** - The HSC/HSO is responsible for ensuring that these procedures are implemented at each work site.

## 5.0 GUIDELINES

### 5.1 Hazards Associated With Excavation/Trenching

The principal hazards associated with excavation/trenching are:

- Suffocation, crushing, or other injury from falling material.
- Damage/failure of installed underground services and consequent hazards.
- Tripping, slipping, or falling.
- Possibility of explosive, flammable, toxic, or oxygen-deficient atmosphere in excavation.

## 5.2 Procedures Prior to Excavation

1. Underground Utilities

   - Determine the presence and location of any underground chemical or utility pipes, electrical, telephone, or instrument wire or cables.
   - If the local DigSafely NY is unable to locate private/domestic or plant utilities, then an independent utility locating service must be contacted and mobilized to the site.
   - Identify the location of underground services by stakes, markers or paint.
   - Arrange to de-energize or isolate underground services during excavation. If not possible, or if location is not definite, method of excavation shall be established to minimize hazards by such means as:

     a) Use of hand tools in area of underground services.
     b) Insulating personnel and equipment from possible electrical contact.
     c) Use of tools or equipment that will reduce possibility of damage to underground services and hazard to worker.

2. Identify Excavation Area — Areas to be excavated shall be identified and segregated by means of barricades, ropes, and/or signs to prevent access of unauthorized personnel and equipment. Suitable means shall be provided to make barriers visible at all times.
3. Surface Water Provide means of diverting surface water from excavation.
4. Shoring/Bracing — Shoring or bracing that may be required for installed equipment adjacent to the excavation shall be designed by a competent person.
5. Structural Ramps — Structural ramps that are used solely by employees as a means of access to or egress from the excavation shall be designed by a competent person.

## 5.3 Procedures For Doing The Excavation

1. **Determine the need for shoring/sloping** — the type of soil will establish the need for shoring, slope of the excavation, support systems, and equipment to be used. The soil condition may change as the excavation proceeds. Appendices A, B, C, D, E, and F of the OSHA Excavation Regulation, 29 CFR 1926 Subpart P, are to be used in defining shoring and sloping requirements.

2. **Mobile equipment** — For safe use of mobile industrial equipment in or near the excavation, the load carrying capacity of soil shall be established and suitable protection against collapse of soil provided by the use of mats, barricades, restricting the location of equipment, or shoring.

3. Excavated material (spoil) shall be stored at least two (2) feet from the edge of the excavation.

4. All trench (vertical sides) excavations greater than five (5) feet deep shall be shored.

5. The excavation shall be inspected daily for changes in conditions, including the presence of ground water, change in soil condition, or effects of weather such as rain or freeze. A safe means of continuing the work shall be established based on changes in condition. Typically test trench excavations made as part of an environmental subsurface nvestigation are made and backfilled the same day.

6. Appropriate monitoring for gas, toxic, or flammable materials will be conducted to establish the need for respiratory equipment, ventilation, or other measures required to continue the excavation safely.

7. Adequate means of dewatering the excavation shall be provided by the contractor as required.

8. A signal person shall be provided to direct powered equipment if working in the excavation with other personnel.

9. A signal person shall be provided when backfilling excavations to direct powered equipment working in the excavation with other personnel.

10. Warning vests will be worn when employees are exposed to public vehicular traffic.

11. Employees shall stand away from vehicles being loaded or unloaded, and shall not be permitted underneath loads handled by lifting or dragging equipment.

12. Emergency rescue equipment, such as breathing apparatus, a safety harness and line, or a basket stretcher, shall be readily available if hazardous atmospheric conditions exist or may be expected to develop. The specifics will be determined by the HSC/HSM.

13. Walkways or bridges with standard guardrail shall be provided where employees or equipment are required or permitted to cross over excavations.

### 5.4 Entering the Excavation

No C&S Engineers, Inc., employee shall enter an excavation which fails to meet the requirements of Section 5.3 of this guideline.

## 6.0 REFERENCES

29 CFR 1926, Subpart P - Excavations

## 7.0 ATTACHMENTS

29 CFR 1926 Subpart P - Appendices A, B, F

| | |
|---|---|
| • **Part Number:** | 1926 |
| • **Part Title:** | Safety and Health Regulations for Construction |
| • **Subpart:** | P |
| • **Subpart Title:** | Excavations |
| • **Standard Number:** | 1926 Subpart P App A |
| • **Title:** | Soil Classification |

(a) Scope and application - (1) Scope. This appendix describes a method of classifying soil and rock deposits based on site and environmental conditions, and on the structure and composition of the earth deposits. The appendix contains definitions, sets for requirements, and describes acceptable visual and manual tests for use in classifying soils.

(2) Application. This appendix applies when a sloping or benching system is designed in accordance with the requirements set fo 1926.652(b)(2) as a method of protection for employees from cave-ins. This appendix also applies when timber shoring for excav designed as a method of protection from cave-ins in accordance with appendix C to subpart P of part 1926, and when aluminum shoring is designed in accordance with appendix D. This Appendix also applies if other protective systems are designed and selec from data prepared in accordance with the requirements set forth in 1926.652(c), and the use of the data is predicated on the us classification system set forth in this appendix.

(b) Definitions. The definitions and examples given below are based on, in whole or in part, the following; American Society for T Materials (ASTM) Standards D653-85 and D2488; The Unified Soils Classification System; The U.S. Department of Agriculture (US Textural Classification Scheme; and The National Bureau of Standards Report BSS-121.

"Cemented soil" means a soil in which the particles are held together by a chemical agent, such as calcium carbonate, such that a hand-size sample cannot be crushed into powder or individual soil particles by finger pressure.

"Cohesive soil" means clay (fine grained soil), or soil with a high clay content, which has cohesive strength. Cohesive soil does not crumble, can be excavated with vertical sideslopes, and is plastic when moist. Cohesive soil is hard to break up when dry, and exhibits significant cohesion when submerged. Cohesive soils include clayey silt, sandy clay, silty clay, clay and organic clay.

"Dry soil" means soil that does not exhibit visible signs of moisture content.

"Fissured" means a soil material that has a tendency to break along definite planes of fracture with little resistance, or a material that exhibits open cracks, such as tension cracks, in an exposed surface.

"Granular soil" means gravel, sand, or silt (coarse grained soil) with little or no clay content. Granular soil has no cohesive strength. Some moist granular soils exhibit apparent cohesion. Granular soil cannot be molded when moist and crumbles easily when dry.

"Layered system" means two or more distinctly different soil or rock types arranged in layers. Micaceous seams or weakened planes in rock or shale are considered layered.

"Moist soil" means a condition in which a soil looks and feels damp. Moist cohesive soil can easily be shaped into a ball and rolled into small diameter threads before crumbling. Moist granular soil that contains some cohesive material will exhibit signs of cohesion between particles.

"Plastic" means a property of a soil which allows the soil to be

deformed or molded without cracking, or appreciable volume change.

"Saturated soil" means a soil in which the voids are filled with water. Saturation does not require flow. Saturation, or near saturation, is necessary for the proper use of instruments such as a pocket penetrometer or sheer vane.

"Soil classification system" means, for the purpose of this subpart, a method of categorizing soil and rock deposits in a hierarchy of Stable Rock, Type A, Type B, and Type C, in decreasing order of stability. The categories are determined based on an analysis of the properties and performance characteristics of the deposits and the characteristics of the deposits and the environmental conditions of exposure.

"Stable rock" means natural solid mineral matter that can be excavated with vertical sides and remain intact while exposed.

"Submerged soil" means soil which is underwater or is free seeping.

"Type A" means cohesive soils with an unconfined, compressive strength of 1.5 ton per square foot (tsf) (144 kPa) or greater. Examples of cohesive soils are: clay, silty clay, sandy clay, clay loam and, in some cases, silty clay loam and sandy clay loam. Cemented soils such as caliche and hardpan are also considered Type A. However, no soil is Type A if:

(i) The soil is fissured; or

(ii) The soil is subject to vibration from heavy traffic, pile driving, or similar effects; or

(iii) The soil has been previously disturbed; or

(iv) The soil is part of a sloped, layered system where the layers dip into the excavation on a slope of four horizontal to one vertical (4H:1V) or greater; or

(v) The material is subject to other factors that would require it to be classified as a less stable material.

"Type B" means:

(i) Cohesive soil with an unconfined compressive strength greater than 0.5 tsf (48 kPa) but less than 1.5 tsf (144 kPa); or

(ii) Granular cohesionless soils including: angular gravel (similar to crushed rock), silt, silt loam, sandy loam and, in some cases, silty clay loam and sandy clay loam.

(iii) Previously disturbed soils except those which would otherwise be classed as Type C soil.

(iv) Soil that meets the unconfined compressive strength or cementation requirements for Type A, but is fissured or subject to vibration; or

(v) Dry rock that is not stable; or

(vi) Material that is part of a sloped, layered system where the layers dip into the excavation on a slope less steep than four horizontal to one vertical (4H:1V), but only if the material would otherwise be classified as Type B.

"Type C" means:

(i) Cohesive soil with an unconfined compressive strength of 0.5 tsf (48 kPa) or less; or

(ii) Granular soils including gravel, sand, and loamy sand; or

(iii) Submerged soil or soil from which water is freely seeping; or

(iv) Submerged rock that is not stable, or

(v) Material in a sloped, layered system where the layers dip into the excavation or a slope of four horizontal to one vertical (4H:1V) or steeper.

"Unconfined compressive strength" means the load per unit area at which a soil will fail in compression. It can be determined by laboratory testing, or estimated in the field using a pocket penetrometer, by thumb penetration tests, and other methods.

"Wet soil" means soil that contains significantly more moisture than moist soil, but in such a range of values that cohesive material will slump or begin to flow when vibrated. Granular material that would exhibit cohesive properties when moist will lose those cohesive properties when wet.

(c) Requirements - (1) Classification of soil and rock deposits. Each soil and rock deposit shall be classified by a competent perso Rock, Type A, Type B, or Type C in accordance with the definitions set forth in paragraph (b) of this appendix.

(2) Basis of classification. The classification of the deposits shall be made based on the results of at least one visual and at least analysis. Such analyses shall be conducted by a competent person using tests described in paragraph (d) below, or in other reco methods of soil classification and testing such as those adopted by the American Society for Testing Materials, or the U.S. Depart Agriculture textural classification system.

(3) Visual and manual analyses. The visual and manual analyses, such as those noted as being acceptable in paragraph (d) of thi shall be designed and conducted to provide sufficient quantitative and qualitative information as may be necessary to identify prc properties, factors, and conditions affecting the classification of the deposits.

(4) Layered systems. In a layered system, the system shall be classified in accordance with its weakest layer. However, each laye classified individually where a more stable layer lies under a less stable layer.

(5) Reclassification. If, after classifying a deposit, the properties, factors, or conditions affecting its classification change in any w changes shall be evaluated by a competent person. The deposit shall be reclassified as necessary to reflect the changed circumst

(d) Acceptable visual and manual tests. - (1) Visual tests. Visual analysis is conducted to determine qualitative information regarc excavation site in general, the soil adjacent to the excavation, the soil forming the sides of the open excavation, and the soil take samples from excavated material.

(i) Observe samples of soil that are excavated and soil in the sides of the excavation. Estimate the range of particle sizes and the amounts of the particle sizes. Soil that is primarily composed of fine-grained material material is cohesive material. Soil composec of coarse-grained sand or gravel is granular material.

(ii) Observe soil as it is excavated. Soil that remains in clumps when excavated is cohesive. Soil that breaks up easily and does nc clumps is granular.

(iii) Observe the side of the opened excavation and the surface area adjacent to the excavation. Crack-like openings such as tens could indicate fissured material. If chunks of soil spall off a vertical side, the soil could be fissured. Small spalls are evidence of m ground and are indications of potentially hazardous situations.

(iv) Observe the area adjacent to the excavation and the excavation itself for evidence of existing utility and other underground s and to identify previously disturbed soil.

(v) Observed the opened side of the excavation to identify layered systems. Examine layered systems to identify if the layers slop the excavation. Estimate the degree of slope of the layers.

(vi) Observe the area adjacent to the excavation and the sides of the opened excavation for evidence of surface water, water see the sides of the excavation, or the location of the level of the water table.

(vii) Observe the area adjacent to the excavation and the area within the excavation for sources of vibration that may affect the s the excavation face.

(2) Manual tests. Manual analysis of soil samples is conducted to determine quantitative as well as qualitative properties of soil a provide more information in order to classify soil properly.

(i) Plasticity. Mold a moist or wet sample of soil into a ball and attempt to roll it into threads as thin as 1/8-inch in diameter. Cohe material can be successfully rolled into threads without crumbling. For example, if at least a two inch (50 mm) length of 1/8-inch be held on one end without tearing, the soil is cohesive.

(ii) Dry strength. If the soil is dry and crumbles on its own or with moderate pressure into individual grains or fine powder, it is g combination of gravel, sand, or silt). If the soil is dry and falls into clumps which break up into smaller clumps, but the smaller clu only be broken up with difficulty, it may be clay in any combination with gravel, sand or silt. If the dry soil breaks into clumps wh break up into small clumps and which can only be broken with difficulty, and there is no visual indication the soil is fissured, the s considered unfissured.

(iii) Thumb penetration. The thumb penetration test can be used to estimate the unconfined compressive strength of cohesive so test is based on the thumb penetration test described in American Society for Testing and Materials (ASTM) Standard designatior "Standard Recommended Practice for Description of Soils (Visual - Manual Procedure).") Type A soils with an unconfined compre strength of 1.5 tsf can be readily indented by the thumb; however, they can be penetrated by the thumb only with very great eff soils with an unconfined compressive strength of 0.5 tsf can be easily penetrated several inches by the thumb, and can be molde finger pressure. This test should be conducted on an undisturbed soil sample, such as a large clump of spoil, as soon as practical excavation to keep to a minimum the effects of exposure to drying influences. If the excavation is later exposed to wetting influe flooding), the classification of the soil must be changed accordingly.

(iv) Other strength tests. Estimates of unconfined compressive strength of soils can also be obtained by use of a pocket penetron using a hand-operated shearvane.

(v) Drying test. The basic purpose of the drying test is to differentiate between cohesive material with fissures, unfissured cohesi and granular material. The procedure for the drying test involves drying a sample of soil that is approximately one inch thick (2.5 six inches (15.24 cm) in diameter until it is thoroughly dry:

(A) If the sample develops cracks as it dries, significant fissures are indicated.

(B) Samples that dry without cracking are to be broken by hand. If considerable force is necessary to break a sample, the soil ha cohesive material content. The soil can be classified as an unfissured cohesive material and the unconfined compressive strength determined.

(C) If a sample breaks easily by hand, it is either a fissured cohesive material or a granular material. To distinguish between the pulverize the dried clumps of the sample by hand or by stepping on them. If the clumps do not pulverize easily, the material is cc fissures. If they pulverize easily into very small fragments, the material is granular.

Next Standard (1926 Subpart P App B)

Regulations (Standards - 29 CFR) - Table of Contents

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Telephone: 800-321-OSHA (6742) | TTY: 877-889-5627

www.OSHA.gov

| | |
|---|---|
| • **Part Number:** | 1926 |
| • **Part Title:** | Safety and Health Regulations for Construction |
| • **Subpart:** | P |
| • **Subpart Title:** | Excavations |
| • **Standard Number:** | 1926 Subpart P App B |
| • **Title:** | Sloping and Benching |

(a) ***Scope and application.*** This appendix contains specifications for sloping and benching when used as methods of protecting working in excavations from cave-ins. The requirements of this appendix apply when the design of sloping and benching protectiv is to be performed in accordance with the requirements set forth in § 1926.652(b)(2).

(b) ***Definitions.***

***Actual slope*** means the slope to which an excavation face is excavated.

***Distress*** means that the soil is in a condition where a cave-in is imminent or is likely to occur. Distress is evidenced by such phen the development of fissures in the face of or adjacent to an open excavation; the subsidence of the edge of an excavation; the slu material from the face or the bulging or heaving of material from the bottom of an excavation; the spalling of material from the fa excavation; and ravelling, i.e., small amounts of material such as pebbles or little clumps of material suddenly separating from the excavation and trickling or rolling down into the excavation.

***Maximum allowable slope*** means the steepest incline of an excavation face that is acceptable for the most favorable site condi protection against cave-ins, and is expressed as the ratio of horizontal distance to vertical rise (H:V).

***Short term exposure*** means a period of time less than or equal to 24 hours that an excavation is open.

(c) ***Requirements*** -- (1) ***Soil classification.*** Soil and rock deposits shall be classified in accordance with appendix A to subpart I 1926.

(2) ***Maximum allowable slope.*** The maximum allowable slope for a soil or rock deposit shall be determined from Table B-1 of tl appendix.

(3) ***Actual slope.*** (i) The actual slope shall not be steeper than the maximum allowable slope.

(ii) The actual slope shall be less steep than the maximum allowable slope, when there are signs of distress. If that situation occur slope shall be cut back to an actual slope which is at least ½ horizontal to one vertical (½H:1V) less steep than the maximum allo slope.

(iii) When surcharge loads from stored material or equipment, operating equipment, or traffic are present, a competent person sh determine the degree to which the actual slope must be reduced below the maximum allowable slope, and shall assure that such achieved. Surcharge loads from adjacent structures shall be evaluated in accordance with § 1926.651(i).

(4) ***Configurations.*** Configurations of sloping and benching systems shall be in accordance with Figure B-1.

**TABLE B-1**
**MAXIMUM ALLOWABLE SLOPES**

| SOIL OR ROCK TYPE | MAXIMUM ALLOWABLE SLOPES (H:V)(1) FOR EXCAVATIONS LESS THAN 20 FEET DEEP(3) |
|---|---|
| STABLE ROCK | VERTICAL (90°) |
| TYPE A (2) | 3/4:1 (53°) |
| TYPE B | 1:1 (45°) |
| TYPE C | 1 ½:1 (34°) |

Footnote(1) Numbers shown in parentheses next to maximum allowable slopes are angles expressed in degrees from the horizontal. Angle rounded off.

Footnote(2) A short-term maximum allowable slope of 1/2H:1V (63°) is allowed in excavations in Type A soil that are 12 feed (3.67 m) or l depth. Short-term maximum allowable slopes for excavations greater than 12 feet (3.67 m) in depth shall be 3/4H:1V (53°).

Footnote(3) Sloping or benching for excavations greater than 20 feet deep shall be designed by a registered professional engineer.

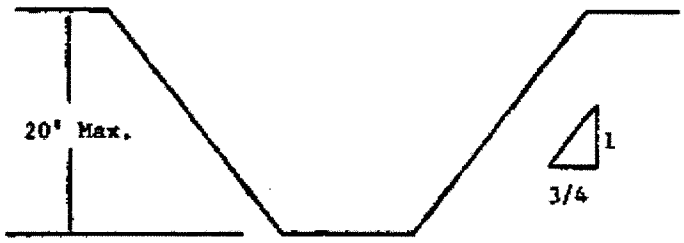
***Figure B-1***

**Slope Configurations**

(All slopes stated below are in the horizontal to vertical ratio)

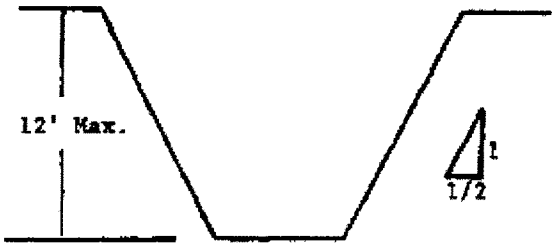
***B-1.1 Excavations made in Type A soil.***

1. All simple slope excavation 20 feet or less in depth shall have a maximum allowable slope of ¾:1.




SIMPLE SLOPE -- GENERAL

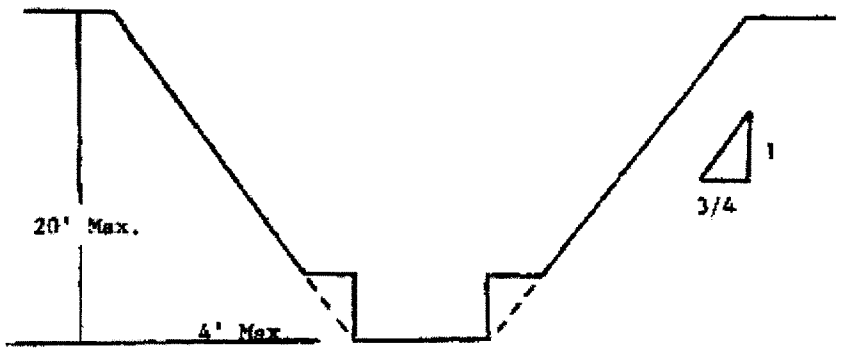
Exception: Simple slope excavations which are open 24 hours or less (short term) and which are 12 feet or less in depth shall have maximum allowable slope of ½:1.



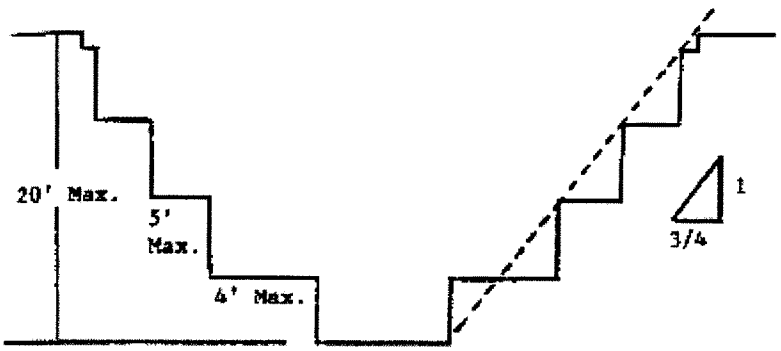

SIMPLE SLOPE -- SHORT TERM

2. All benched excavations 20 feet or less in depth shall have a maximum allowable slope of 3/4 to 1 and maximum bench dimens

follows:

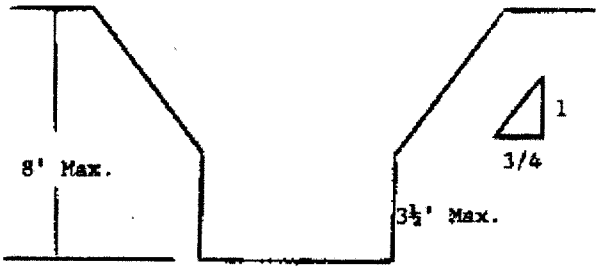



SIMPLE BENCH



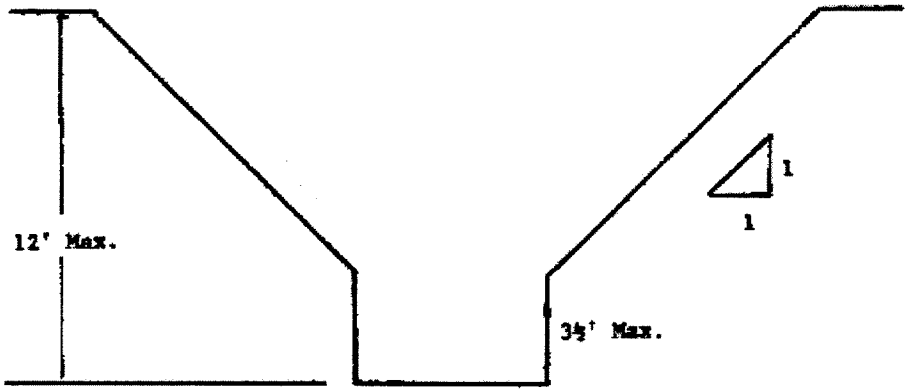

MULTIPLE BENCH

3. All excavations 8 feet or less in depth which have unsupported vertically sided lower portions shall have a maximum vertical sid feet.



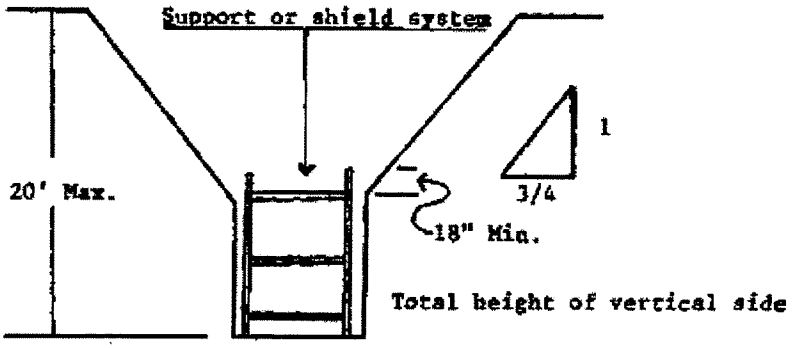

UNSUPPORTED VERTICALLY SIDED LOWER PORTION -- MAXIMUM 8 FEET IN DEPTH)

All excavations more than 8 feet but not more than 12 feet in depth with unsupported vertically sided lower portions shall have a r allowable slope of 1:1 and a maximum vertical side of 3½ feet.




UNSUPPORTED VERTICALLY SIDED LOWER PORTION -- MAXIMUM 12 FEET IN DEPTH)

All excavations 20 feet or less in depth which have vertically sided lower portions that are supported or shielded shall have a maxi allowable slope of ¾:1. The support or shield system must extend at least 18 inches above the top of the vertical side.

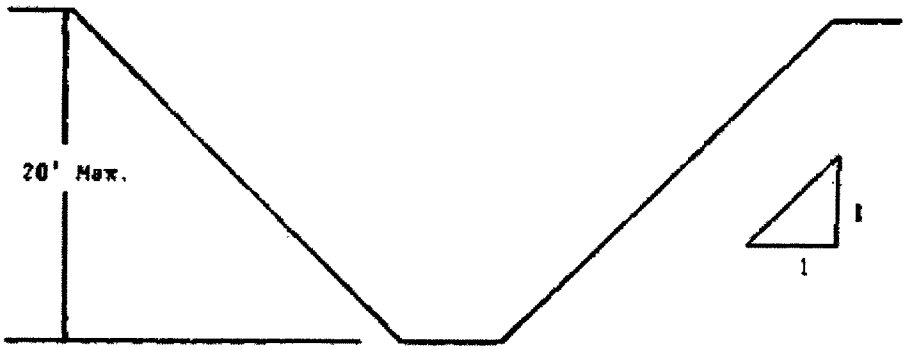



SUPPORTED OR SHIELDED VERTICALLY SIDED LOWER PORTION

4. All other simple slope, compound slope, and vertically sided lower portion excavations shall be in accordance with the other opt permitted under § 1926.652(b).

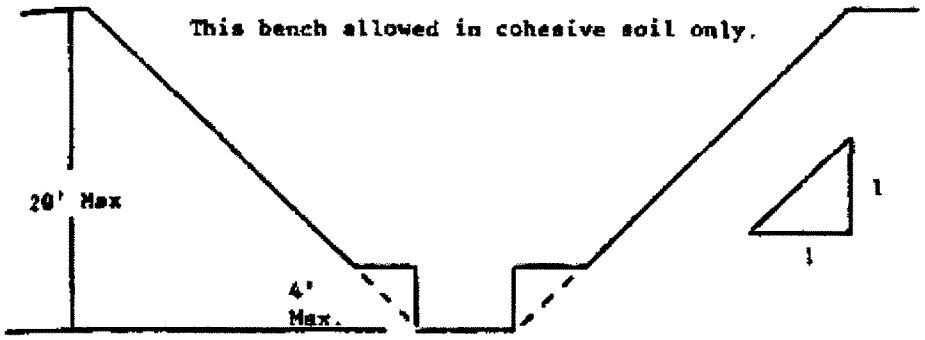
**B-1.2 Excavations Made in Type B Soil**

1. All simple slope excavations 20 feet or less in depth shall have a maximum allowable slope of 1:1.

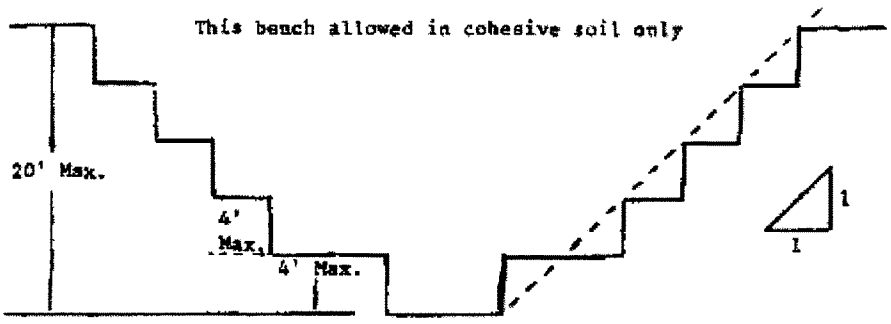



SIMPLE SLOPE

2. All benched excavations 20 feet or less in depth shall have a maximum allowable slope of 1:1 and maximum bench dimensions

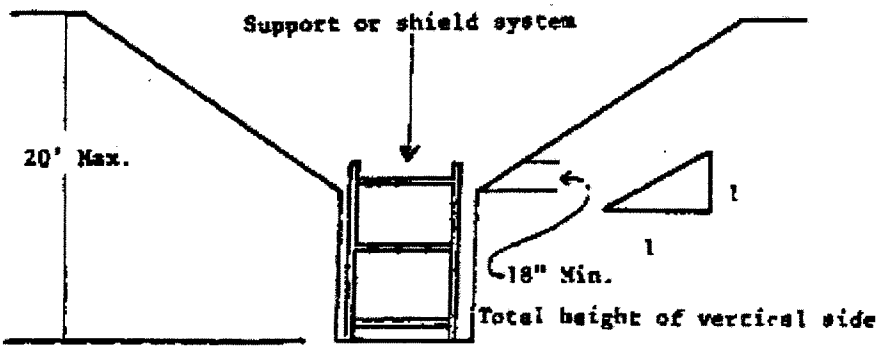



SINGLE BENCH




MULTIPLE BENCH

3. All excavations 20 feet or less in depth which have vertically sided lower portions shall be shielded or supported to a height at le inches above the top of the vertical side. All such excavations shall have a maximum allowable slope of 1:1.

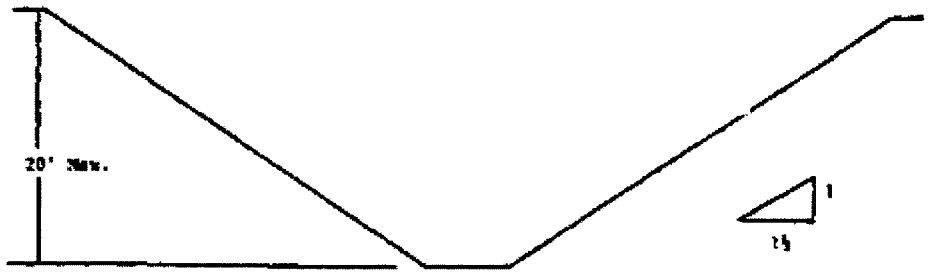



VERTICALLY SIDED LOWER PORTION

4. All other sloped excavations shall be in accordance with the other options permitted in § 1926.652(b).

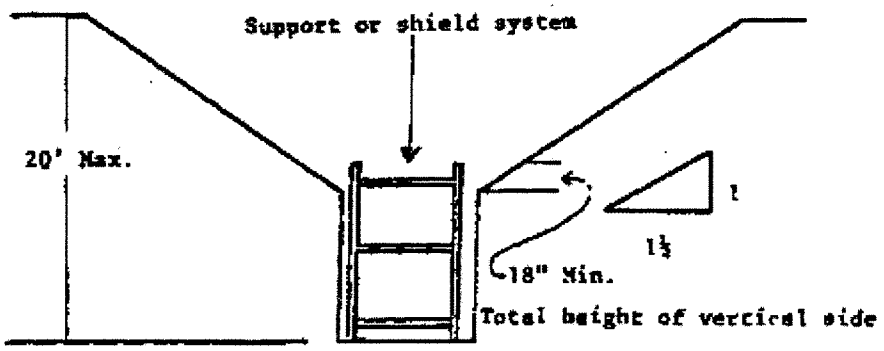
**B-1.3 Excavations Made in Type C Soil**

1. All simple slope excavations 20 feet or less in depth shall have a maximum allowable slope of 1½:1.




SIMPLE SLOPE

2. All excavations 20 feet or less in depth which have vertically sided lower portions shall be shielded or supported to a height at le inches above the top of the vertical side. All such excavations shall have a maximum allowable slope of 1½:1.

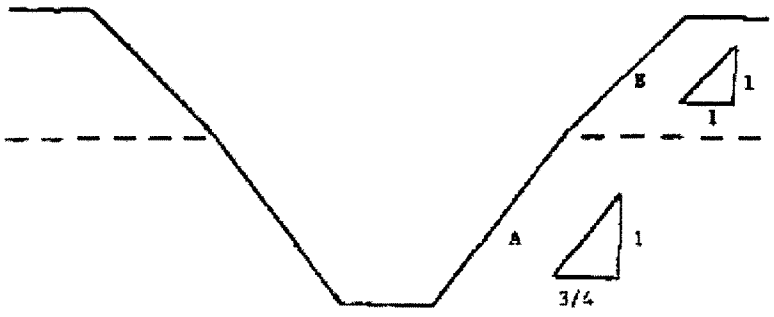



VERTICAL SIDED LOWER PORTION

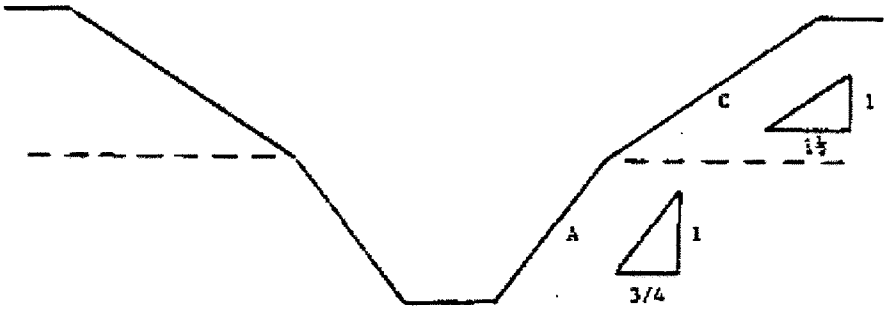
3. All other sloped excavations shall be in accordance with the other options permitted in § 1926.652(b).

**B-1.4 Excavations Made in Layered Soils**

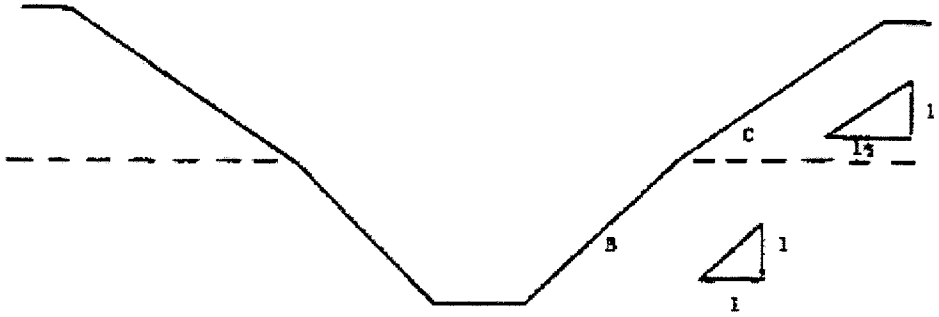
1. All excavations 20 feet or less in depth made in layered soils shall have a maximum allowable slope for each layer as set forth b



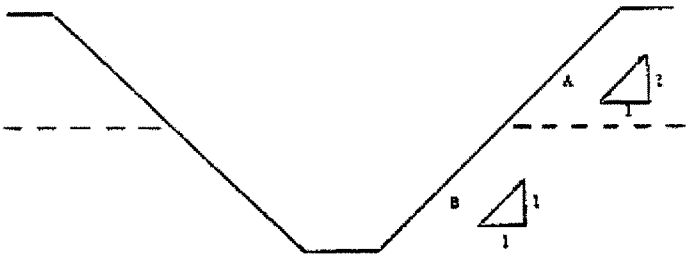

B OVER A



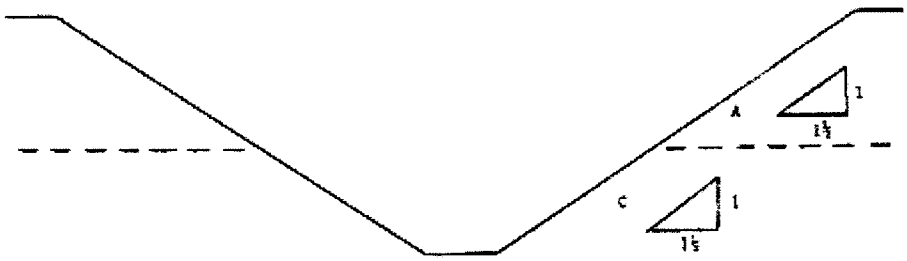

C OVER A



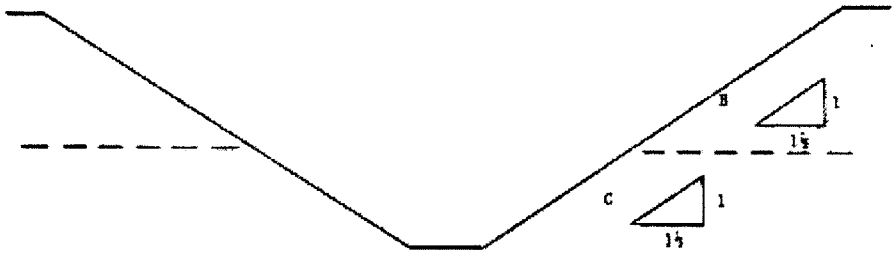

C OVER B




A OVER B




A OVER C




B OVER C

2. All other sloped excavations shall be in accordance with the other options permitted in § 1926.652(b).

Next Standard (1926 Subpart P App C)

Regulations (Standards - 29 CFR) - Table of Contents

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U.S. Department of Labor | Occupational Safety & Health Administration | 200 Constitution Ave., NW, Washington, DC
Telephone: 800-321-OSHA (6742) | TTY: 877-889-5627

www.OSHA.gov

- **Part Number:** 1926
- **Part Title:** Safety and Health Regulations for Construction
- **Subpart:** P
- **Subpart Title:** Excavations
- **Standard Number:** 1926 Subpart P App F
- **Title:** Selection of Protective Systems

The following figures are a graphic summary of the requirements contained in subpart P for excavations 20 feet or less in depth. Prc systems for use in excavations more than 20 feet in depth must be designed by a registered professional engineer in accordance wit 1926.652(b) and (c).

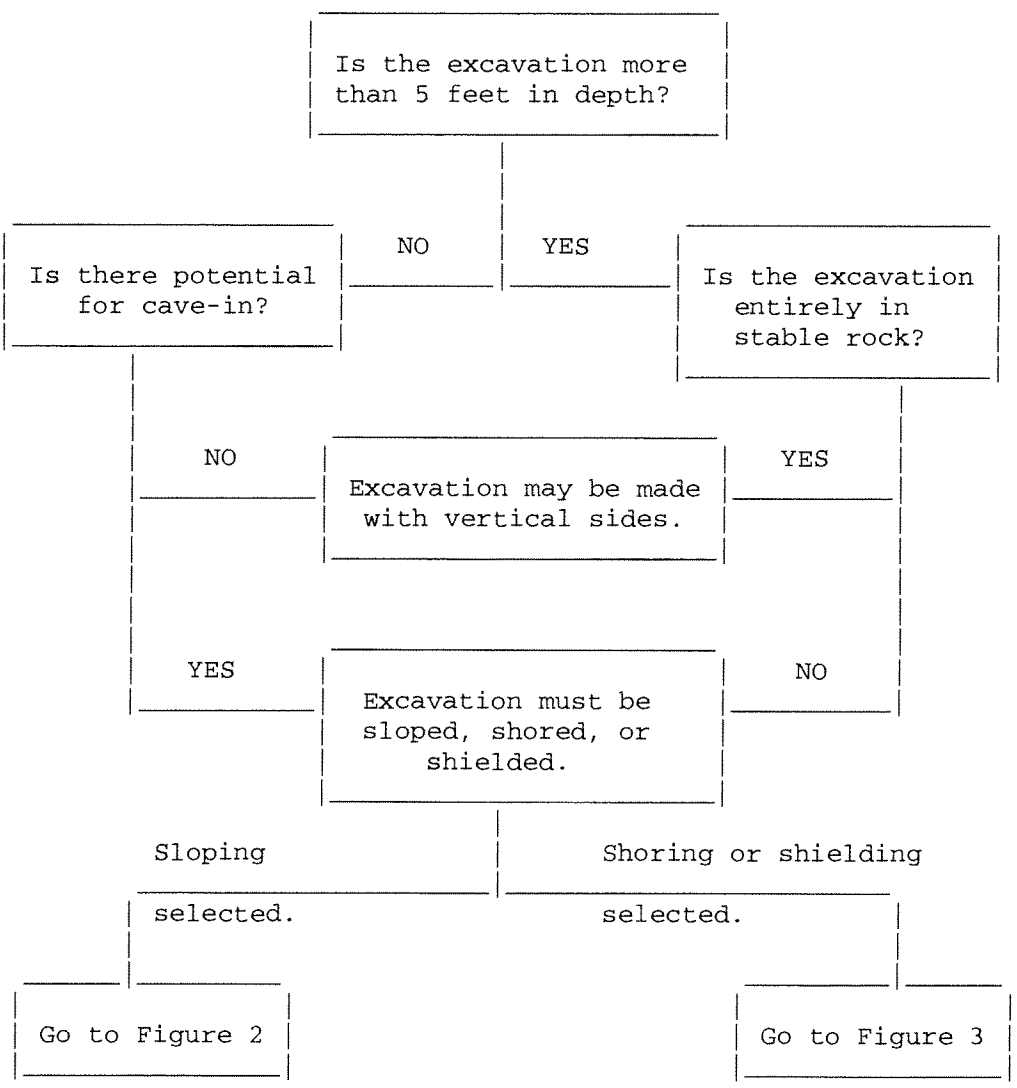


FIGURE 1 - PRELIMINARY DECISIONS

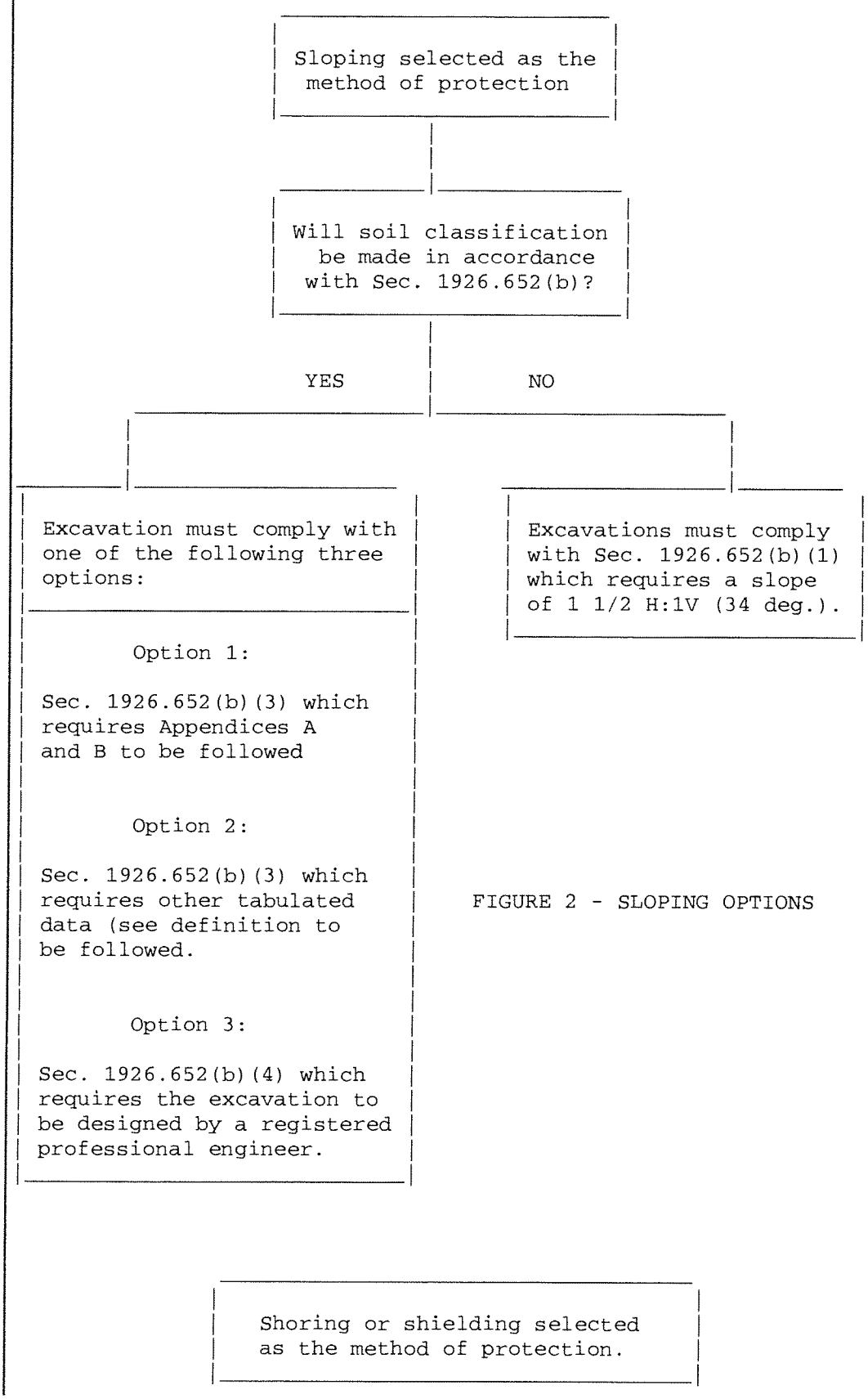



FIGURE 2 - SLOPING OPTIONS

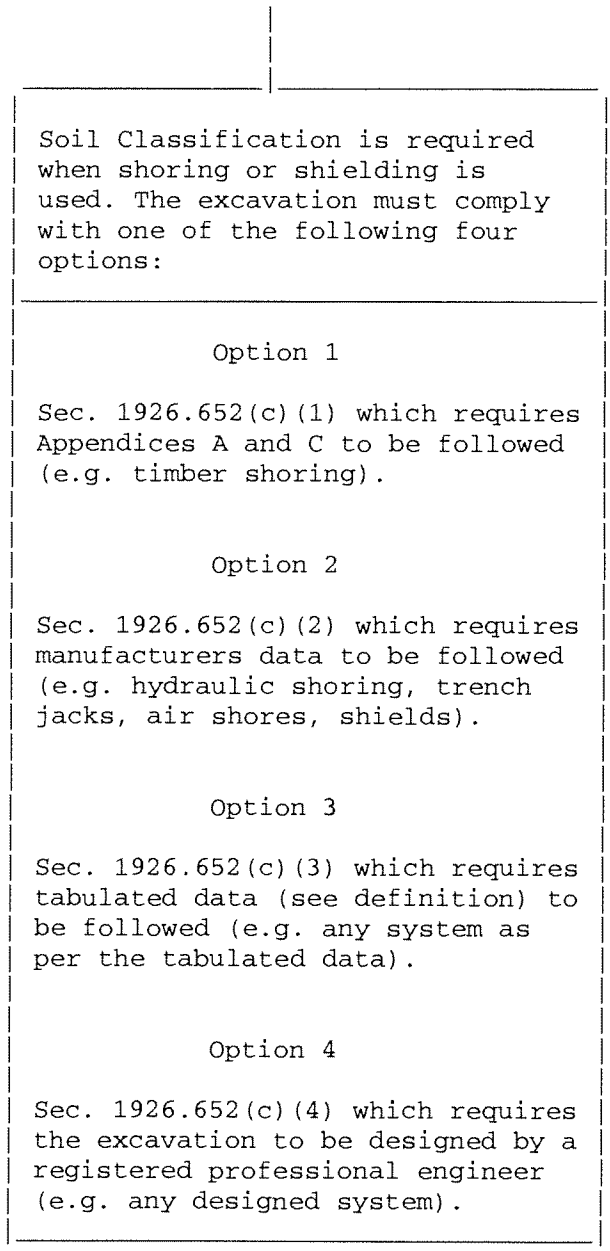



FIGURE 3 - SHORING AND SHIELDING OPTIONS

Next Standard (1926 Subpart Q)

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# Appendix B

***GUIDANCE ON INCIDENT INVESTIGATION***

***AND REPORTING***

C&S ENGINEERS

**Incident Response**

## 1.0 PURPOSE

To prevent the occurrence of accidents on C&S Engineers, Inc., work sites and to establish a procedure for investigation and reporting of incidents occurring in, or related to C&S work activities.

## 2.0 SCOPE

Applies to all incidents related to C&S Engineers, Inc. work activities.

## 3.0 DEFINITIONS

Accident - An undesired event resulting in personal injury and/or property damage, and/or equipment failure.

Fatality - An injury or illness resulting in death of the individual.

Incident - Any occurrence which results in, or could potentially result in, the need for medical care or property damage. Such incidents shall include lost time accidents or illness, medical treatment cases, unplanned exposure to toxic materials or any other significant occurrence resulting in property damage or in "near misses."

Incidence Rate - the number of injuries, illnesses, or lost workdays related to a common exposure base of 100 full-time workers. The rate is calculated as:

N/EH x 200,000

N = number of injuries and illnesses or lost workday cases; EH = total hours worked by all associates during calendar year. 200,000 = base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks per year).

Injury - An injury such as a cut, fracture, sprain, amputation, etc. which results from a work accident or from a single instantaneous event in the work environment.

Lost Workday Case - A lost workday case occurs when an injured or ill employee experiences days away from work beginning with the next scheduled work day. Lost workday cases do not occur unless the employee is effected beyond the day of injury or onset of illness.

Recordable Illness - An illness that results from the course of employment and must be entered on the OSHA 300 Log and Summary of Occupational Injuries and Illnesses. These illnesses require medical treatment and evaluation of work related injury. For example, dermatitis, bronchitis, irritation of eyes, nose, and throat can result from work and non-work related incidents.

3. Following the treatment and care of the injured employee, the emergency coordinator or his on-site designee and the project manager will initiate the completion of the first injury report. The Health & Safety Manager will assist.

**Project Manager**

1. Upon notification of a personal injury or illness on the job site, will notify C & S Engineers, Inc, President and Corporate Legal and C&S Companies Health and Safety Manager.
2. Will report to the worksite to initiate the first injury report.
3. Will report to the treatment facility to check on the well being of the injured employee. The project manager will ensure that the treatment facility is aware that this is a workers compensation case.
4. Will assist the Health and Safety Manager in the analysis of the incident.

**Health & Safety Manager**

1. Upon notification of the personal injury will determined if it is necessary to report to the treatment facility or the accident site, depending on the nature of the injuries and the circumstances of the accident.
2. Will report to the worksite to begin a root cause analysis investigation of the accident. The investigation may include interview of witnesses, field crew , and project manager, the photographing of the scene, reconstruction of the accident scene, using test instruments and taking measurements. The Health and Safety Manager may draw diagrams from the information learned.
3. The Health and Safety Manager will work with the owner/client as necessary to investigate the accident.
4. The Health & Safety manager will ensure that the site is safe to resume work.
5. The Health & Safety Manager shall initiate the New York State Compensation form requirements (C-2) and forward a copy of the C-2 to the C & S Engineers, Inc. controller for transmittal to the Compensation Carrier within 8 hrs of notification of the incident or by the end of the next business day.
6. The Health and Safety manager, upon completion of the investigation, will provide the Project Manager with a written investigative report (copy to the President)
7. The accident will be reviewed at the next Project Managers meeting with the intent to prevent further or similar events on other projects.
8. The Health & Safety Manager will assess the incident to determine OSHA record ability and make record if necessary on the OSHA 300 form, within five working days.

Recordable Injury - An injury that results from the course of employment and must be entered on the OSHA 300 Log and Summary of Occupational Injuries and Illnesses. These injuries require medical treatment; may involve loss of consciousness; may result in restriction of work or motion or transfer to another job; or result in a fatality.

Near Miss - An incident which, if occurring at a different time or in a different personnel or equipment configuration, would have resulted in an incident.

## 4.0 RESPONSIBILITIES

Employees - It shall be the responsibility of all C&S Engineers, Inc. employees to report all incidents as soon as possible to the HSC, regardless of the severity.

Human Resources - has overall responsibility for maintaining accident/ incident reporting and investigations according to current regulations and recording injuries/ illness on the OSHA 300 log, and posting the OSHA 300 log.

Emergency Coordinator - It is the responsibility of the Emergency Coordinator to investigate and prepare an appropriate report of all accidents, illnesses, and incidents occurring on or related to C&S Engineers, Inc. work. The Emergency Coordinator shall complete Attachment A within 24 hours of the incident occurrence.

Health and Safety Manager (HSM) - It is the responsibility of the HSM to investigate and prepare an appropriate report of all lost time injuries and illnesses and significant incidents occurring on or related to C&S Companies. The HSM shall maintain the OSHA 300 form.

Project Managers (PM) - It shall be the PM's responsibility to promptly correct any deficiencies in personnel, training, actions, or any site or equipment deficiencies that were determined to cause or contribute to the incident investigated.

## 5.0 GUIDELINES

### 5.1 Incident Investigation

The Project Manager will immediately investigate the circumstances surrounding the incident and will make recommendations to prevent recurrence. The HSM shall be immediately notified by telephone if a serious accident/ incident occurs. The incident shall be evaluated to determine whether it is OSHA recordable. If the incident is determined to be OSHA 300 recordable, it shall be entered on the OSHA 300 form.

The Project Manager with assistance from the HSM must submit to the office an incident report form pertaining to any incident resulting in injury or property damage.

## 5.2 Incident Report

The completed incident report must be completed by the Project Manager within 12 hours of the incident and distributed to the HSM, and Human Resources. This form shall be maintained by Human Resources for at least five years for all OSHA recordable cases. This form serves as an equivalent to the OSHA 101 form.

## 5.3 Incident Follow-up Report

The Incident Follow-Up Report (Attachment B) shall be distributed with the Incident Report within one week of the incident. Delay in filing this report shall be explained in a brief memorandum.

## 5.4 Reporting of Fatalities or Multiple Hospitalization Accidents

Fatalities or accidents resulting in the hospitalization of three or more employees must be reported to OSHA verbally or in writing within 8 hours. The report must contain 1) circumstances surrounding the accident(s), 2) the number of fatalities, and 3) the extent of any injuries.

## 5.5 OSHA 300A Summary Form

Recordable cases must be entered on the log within six workdays of receipt of the information that a recordable case has occurred. The OSHA log must be kept updated to within 45 calendar days.
OSHA 300 forms must be updated during the 5 year retention period, if there is a change in the extent or outcome of an injury or illness which affects an entry on a log. If a change is necessary, the original entry should be lined out and a corrected entry made on that log. New entries should be made for previously unrecorded cases that are discovered or for cases that initially weren't recorded but were found to be recordable after the end of the year. Log totals should also be modified to reflect these changes.

### 5.5.1 Posting

The log must be summarized at the end of the calendar year and the summary must be posted from February 1 through May 31.

## 5.6 OSHA 300A

Facilities selected by the Bureau of Labor Statistics (BLS) to participate in surveys of occupational injuries and illnesses will receive the OSHA 300A. The data from the annual summary on the OSHA 300 log should be transferred to the OSHA 300A, other requested information provided and the form returned as instructed by the BLS.

### 5.7 Access to OSHA Records

All OSHA records (accident reporting forms and OSHA 300 logs) should be available for inspection and copying by authorized Federal and State government officials.

Employees, former employees, and their representatives must be given access for inspection and copying to only the log, OSHA No. 300, for the establishment in which the employee currently works or formerly worked.

## 6.0 REFERENCES

29 CFR Part 1904

## 7.0 ATTACHMENTS

Attachment A - Incident Investigation Form
Attachment B - Incident Follow-Up Report
Attachment C - Establishing Recordability

**ATTACHMENT A**

**INCIDENT INVESTIGATION FORM**

Accident investigation should include:

Location: _____

Time of Day: _____

Accident Type: _____

Victim: _____

Nature of Injury: _____

Released Injury: _____

Hazardous Material: _____

Unsafe Acts: _____

Unsafe Conditions: _____

Policies, Decisions: _____

_____

Personal Factors: _____

_____

Environmental Factors: _____

_____

_____

**ATTACHMENT B**

Date _____

Foreman: _____

**INCIDENT FOLLOW-UP REPORT**

Date of Incident: _____

Site: _____

Brief description of incident: _____

_____

_____

_____

_____

Outcome of incident: _____

_____

_____

_____

Physician's recommendations: _____

_____

_____

_____

Date the injured returned to work: _____

Project Manager Signature: _____

Date: _____

ATTACH ANY ADDITIONAL INFORMATION TO THIS FORM

## ATTACHMENT C

## ESTABLISHING RECORDABILITY

1. Deciding whether to record a case and how to classify the case.

   Determine whether a fatality, injury or illness is recordable.

   A fatality is recordable if:

   - Results from employment

   An injury is recordable if:

   - Results from employment and
   - It requires medical treatment beyond first aid or
   - Results in restricted work activity or job transfer, or
   - Results in lost work day or
   - Results in loss of consciousness

   An illness is recordable if:

   - It results from employment

2. Definition of "Resulting from Employment"

   Resulting from employment is when the injury or illness results from an event or exposure in the work environment. The work environment is primarily composed of: 1) The employer's premises, and 2) other locations where associates are engaged in work-related activities or are present as a condition of their employment.

   The employer's premises include company rest rooms, hallways, cafeterias, sidewalks and parking lots. Injuries occurring in these places are generally considered work related.

   The employer's premises EXCLUDES employer controlled ball fields, tennis courts, golf courses, parks, swimming pools, gyms, and other similar recreational facilities, used by associates on a voluntary basis for their own benefit, primarily during off work hours.

   Ordinary and customary commute, is not generally considered work related.

   Employees injured or taken ill while engaged in consuming food, as part of a normal break or activity is not considered work related. Employees injured or taken ill as the result of smoking, consuming illegal drugs, alcohol or applying make up are generally not considered work related. Employee injured by un authorized horseplay is generally not considered work related, however, an employee injured as a result of a fight or other workplace violence act, may be considered work related.

Associates who travel on company business are considered to be engaged in work related activities all the time they spend in the interest of the company. This includes travel to and from customer contacts, and entertaining or being entertained for purpose of promoting or discussing business. Incidents occurring during normal living activities (eating, sleeping, recreation) or if the associate deviates from a reasonably direct route of travel are not considered OSHA recordable.

3. Distinction between Medical Treatment and First Aid.

First aid is defined as any one-time treatment, and any follow up visit for the purpose of observation, of minor scratches, cuts, burns, splinters, etc., which do not ordinarily require medical care. Such one time treatment, and follow up visit for the purpose of observation, is considered first aid even though provided by a physician or registered professional personnel.

Medical Treatment (recordable)

a) They must be treated only by a physician or licensed medical personnel.

b) They impair bodily function (i.e. normal use of senses, limbs, etc.).

c) They result in damage to physical structure of a non superficial nature (fractures).

d) They involve complications requiring follow up medical treatment.

# Appendix C

## *COMMUNITY AIR MONITORING PLAN*

C&S ENGINEERS

# Community Air Monitoring Plan

# for

# 1200 JEFFERSON AVENUE SITE
# BCP SITE NO. C915346
# 1200 JEFFERSON AVENUE
# CITY OF BUFFALO, ERIE COUNTY, NEW YORK

**September 2021**

# Community Air Monitoring Plan

## Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary.

**Continuous monitoring** will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

**Periodic monitoring** for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

<u>VOC Monitoring, Response Levels and Actions</u>

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using

equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate, such as isobutylene. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/$m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/$m^3$ above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/$m^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/$m^3$ of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

**Fugitive Dust and Particulate Monitoring**

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number;
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time

(run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50° C (14 to 122° F); and
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record-keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative, this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM-10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:
(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;

(e) Restricting vehicle speeds to 10 mph;

(f) Covering excavated areas and material after excavation activity ceases; and

(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

# APPENDIX C
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