

**AGREEMENT NO. E03975
MPMS NO. 108952**

**SR 4034, SECTION A01 (BAYFRONT PARKWAY)
CENTRAL CORRIDOR IMPROVEMENTS
CITY OF ERIE, ERIE COUNTY, PA**

Phase I Environmental Site Assessment Report

PREPARED FOR



DISTRICT 1-0

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APRIL 2020



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Section 1.0 Executive summary

ms consultants, inc. has been tasked by PennDOT District 1.0 to perform a Phase I Environmental Site Assessment (ESA) for the Bayfront Parkway Central Corridor Improvement Project (project). The Erie Central Bayfront Area is being transformed from what once was a heavy industrial area to an area of recreation, retail and residential dwelling. Some of this development has already been constructed, while other portions are anticipated to be constructed in the near future.

The Bayfront Parkway Central Corridor Improvement Project is intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. The project must also enhance multi-modal transportation connections between the Erie Downtown community (businesses, neighborhoods, etc.) with the waterfront property. The alternatives that are being considered to accomplish these goals are as follows:

- Grade separated intersection between State Street and Bayfront Parkway. This will reduce congestion, improve mobility, and significantly improve safety while at the same time enhancing multi-modal connections between the community and the waterfront.
- Roundabouts along the Bayfront Parkway at Sassafras Street Extension and Holland Street. These improvements are also aimed to reduce congestion and improve safety but increasing intersection capacity while simultaneously calming/slowing traffic.
- Shared Use trails. Additional connections between neighborhoods, downtown, and the waterfront aim to improve mobility and integrate the Bayfront Parkway with downtown and the adjacent neighborhoods.
- As part of the Central Corridor Improvements, the existing railroad track located between Sassafras Street Extension and Holland Street will be removed to accommodate the proposed improvements. In order to maintain their operations, CSX is proposing to add additional track east of Holland Street and adjacent to the Pennsylvania Soldiers' and Sailors' Home and the Veterans Memorial Cemetery. Currently an at-grade railroad crossing exists between the Soldiers' and Sailors' Home and the Veterans Memorial Cemetery. For safety and operational concerns, this crossing will be eliminated and a multi-modal bridge over the proposed CSX tracks will be constructed, located west of the existing crossing.

The study area for this Phase I ESA consists of approximately 1.75 miles Bayfront Parkway (SR 4034) in Erie, Pennsylvania. The study area also includes The Bayfront Parkway intersections of Sassafras Street Extension, State Street, Holland Street in the City of Erie, Erie County Pennsylvania. Based upon the City of Erie Zoning, the land use of the project area is primarily zoned Waterfront Commercial.



Purpose

The purpose of the Phase I ESA is to identify existing and potential releases of hazardous substances, inquire into the previous ownership and uses, and identify other environmental concerns on the properties that may be affected by the project. The information gathered from this Phase I ESA will be used in the final design analysis for the project and to identify potential concerns that may be necessary to address when the final design is completed. It is anticipated that additional environmental assessments will be performed during the final design stage of the project in order to provide more detailed recommendations for the identified sites of potential concern.

The Phase I ESA was conducted in conformance with the scope and limitations of PennDOT Publication 281, The Transportation Project Development Process, Waste Site Evaluation Procedures Handbook and ASTM E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. This was accomplished by:

- Performing an environmental database search of the study area and surrounding properties to identify sites that may pose environmental hazards for the project.
- Performing a site reconnaissance by driving the study area and performing site walks (where necessary) in an effort to identify areas that may pose environmental hazards for the project and to identify the locations of existing underground storage tanks (USTs).
- Reviewing historic maps and aerial photographs in an effort to determine the past use of properties within and surrounding the study area.
- Conducting file reviews at the Pennsylvania Department of Environmental Protection (PADEP) Northwest Regional Office to obtain further information for the sites of potential environmental concern identified on environmental databases.
- Contacting local representatives such as: City of Erie Planning, Erie County Planning, City of Erie Police Department, City of Erie Fire Department, and Erie County Hazardous Materials Response Team in order to obtain information on potential sites of concern within the study area.
- Questioning adjacent property owners to obtain additional information.
- Evaluating the information obtained for each of the identified sites of potential environmental concern to determine if further investigation is warranted based on the three project alternatives provided by ms consultants, inc.

Findings

Based on the Bayfront Parkway Central Corridor Improvement Project design, the sources reviewed and contacted for this Phase I ESA, and observations made during the site visit, 42 sites of potential concern were identified for the project. The site locations are listed on **Table 1**.



Table 1

Number	Name	Facility Type
1	DONJON SHIPBUILDING & REPAIR LLC/ERIE	AIRS, AIRSAFS, BRS, ECHOR03, ERNSPA (2), FRSPA (5), ICIS, ICISNPDES, NPDESRO3 RCRAGR03
2	GAF BLDG MATERIALS	AIRS (2) AUL, ECHOR03, ERNSPA(2), FRSPA (3), RCRANGRO3, SEMSARCH, SPILLS(3), TRI, VCP
3	BETWEEN THE SHERATON DOCKS AND PRESQUE ISLE YACHT CLUB DOCKS	ERNSPA (2)
4	EAST 5TH ST AND WAYNE ST, ERIE, PA 16512	ERNSPA
5	HAMPTON INN -HARBOR PLACE	ECHOR03, FRSPA, LRST,RST
6	BAYSHORE MARINE	RST
7	CSX BAYFRONT SITE FMR	AUL, VCP
8	WAYNE STREET DUMP	MWO, SEMSARCH, SWF
9	PHMC FLAGSHIP NIAGARA	ECHOR03, FRSPA, RCRAGR03
10	ERIE SAND & GRAVEL CO 1	UIC
11	HAMOT MED CTR	RST
12	ERIE CITY WATER AUTH	ECHOR03, ERNSPA, FRSPA (14), ICIS,ICISNPDES, NPDESRO3, RCRAGR03
13	MAYER BROTHERS CONSTRUCTION INC.	FRSPA
14	PENELEC/FRONT ST	AIRS,ECHOR03, FRSPA(3), PADS, RCRANGRO3, SEMSARCH,VCP
15	UNITED ERIE FACILITY, ERIE, PA	ERNSPA
16	UPMC HAMOT/ERIE	AIRS, ECHOR03, FRSPA (3), ICIS, MWO,RCRAGR03, RST, SPILLS, SWF
17	HEALTHSOUTH GREAT LAKES REHAB HOSP	RST
18	NIAGARA MACH	RCRANGRO3
19	PA SOLDIERS & SAILORS HOME	LRST, RST
20	ERIE INTL MARINE TERM	RST
21	ERIE CITY, SOMMERHEIN DR	RST
22	NATIONAL FUEL GAS ERIE SERVICE CENTER	LRST, RCRAGR03, RST,VCP(2)
23	MEDI-CENTER HOSPITAL	RCRANGRO3
24	FAMILY DOLLAR STORE NO 3779	RCRAGR03
25	ERIE WWTOUCHING/ ADJACENT	LRST,MWO, RST, RST(2)
26	SIMON BLDG PROD	LRST, RST
27	MCALLISTER MARINA	LRST,RST (2)
28	ATLANTIC 0363 8756 CO OP 4047	LRST, RST
29	ERIE SCH DIST BUS GARAGE	LRST, RST
30	GERTRUDE A BARBER DR CTR	RST
31	FLANAGANS SVC	RST
32	7TH & EAST STS, ERIE, PA	HISTOUCHING/ ADJACENTST
33	ERIE SPEED CHECK	LRST, VCP
34	ERIE COKE	RCRASUBC, RCRAT, SEMSARCH
35	NORTH CREEK ROAD LANDFILL #70	SEMSARCH
36	KWIK FILL M 8	LRST
37	EAST AVENUE SPEED CHECK	LRST
38	HOLIDAY MART II	LRST
39	ERIE CITY IRON WORKS	VCP
40	AMER METER	RCRASUBC
41	ACCU RIDE ERIE LP	RCRAC
42	ERIE RESISTOR SITE	SHWS



Recommendations

ms consultants, inc. personnel conducted a Phase I Environmental Site Assessment to evaluate and screen the proposed project study area to identify areas, which by virtue of past or present land use, visual evidence, or proximity to areas known or suspected to be contaminated, or that may reasonably be presumed to be contaminated by hazardous substances in accordance with PennDOT Publication 281 Waste Site Evaluation Procedures Handbook and ASTM E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

General Recommendations

1. No further action is recommended at this time for 41 of the 42 sites of potential concern with the understanding that little to no intrusive activities will be conducted. While the majority of the proposed improvements located within the former GAF site are located on fill, some excavation of potentially contaminated soil and/or sediment may be encountered during construction of proposed drainage pipes/inlets, trenches for utility relocations, and sign/light pole foundations. It is anticipated these activities will have a limited footprint and specifications will be prepared and included in the contract documents to provide the contractor with specific instructions on the testing, handling, stockpiling, and proper disposal of contaminated soils, if encountered.
2. After the design plans for the project are completed, a Waste Management Plan (WMP), and a Site Specific Health and Safety Plan (SSHASP) should be prepared to address soil, sediment, groundwater management, environmental health, and worker safety during all project construction activities. The WMP should address all known or suspected contaminants that may be associated with the identified sites of potential concern.
3. Within CSX Railroad, and former GAF property any earthwork activities will be required to be conducted in accordance with their Environmental Covenant.

No Further Action Recommended Sites

A further evaluation is not warranted based on the available information for the following properties: Sheraton Docks and Presque Isle Yacht Club docks, East 5th St and Wayne St, Erie, PA 16512, Hampton Inn -Harbor Place, Bayshore Marine, Wayne Street Dump, PHMC Flagship Niagara, Erie Sand & Gravel Co 1, Hamot Med CTR, Erie City Water Auth, Mayer Brothers Construction inc., Penelec/Front St, United Erie Facility, Erie, Pa, UPMC Hamot/Erie, HealthSouth Great Lakes Rehab Hosp, Niagara Mach, Pa Soldiers & Sailors Home, Erie Intl Marine Term, Erie City, Sommerhein Dr, National Fuel Gas Erie Service Center, Medi-Center Hospital, Family Dollar Store No 3779, Erie WW, Simon Bldg Prod, Mcallister Marina, Atlantic 0363 8756 Co Op 4047, Erie Sch Dist Bus Garage, Gertrude A Barber Dr Ctr, Flanagans Svc, 7th & East Sts, Erie, Pa, Erie Speed Check, Erie Coke, North Creek Road Landfill #70, Kwik Fill M 8, East Avenue Speed Check, Holiday Mart ii, Erie City Iron Works, Amer Meter, Accu Ride Erie LP, Erie Resistor Site, GAF, Donjon Shipbuilding & Repair LLC/Erie).If the project design



changes, the need for further assessment of these sites should be re-evaluated. During final design and prior to construction activities, the status, extent and condition of potential contaminated areas should be reviewed relative to the proposed roadway plans and construction activities.

Further Action Recommended Sites

The CSX railroad crossings and the abandoned railroad tracks may have been impacted by historic spills, leaks from cars, or maintenance activities. To evaluate these track areas Phase II ESA sampling will be conducted under the construction contract which will consist of obtaining shallow soil samples along the track area.

Twelve (12) representative samples will be collected adjacent to the railroad tracks in areas disturbed by the proposed construction activities. Sampling will be conducted using hand held mechanical equipment to a maximum sampling depth of 3 feet below the surface. Environmental samples will be collected from composited samples at each location. Samples will be screened for Volatile Organic Compounds (VOCs) using a photo-ionization detector (PID) prior to sample collection. If there are no elevated PID readings, the sample will be collected from the entire sampling interval. If there are PID readings, the sample will be taken from the location of the highest PID reading.

Site Specific Health and Safety Plan (SSHASP) will be required for submittal prior to conducting the field work. The Health and Safety Plan will meet the requirements of 29 CFR 1910.120.

A Field Sampling Plan (FSP) will be prepared to indicate the sampling protocols and sample locations. A figure indicating the proposed sampling locations will be submitted to PennDOT for review. The field investigation will consist of twelve (12) sampling locations adjacent to the railroad tracks (maximum depth 3 feet below the elevation of the existing surface). The sample interval will correspond with the anticipated construction excavation depth interval.

Section 2.0 Introduction

2.1 Phase I Environmental Site Assessment

The purpose of this Phase I ESA is to identify areas reasonably presumed to be contaminated by hazardous substances or petroleum products. Suspect areas are identified through assessment of past and present land use, visual observation, or proximity to areas known or suspected to be contaminated. This report documents the findings of the Phase I ESA and recommends those portions of the subject site, if any, which may require additional assessment.

The Phase I ESA was prepared in general accordance with the following document:

- *Pennsylvania Department of Transportation (PennDOT) Publication 281 Waste Site Evaluation Procedures Handbook.*



2.2 Purpose and Scope

The Pennsylvania Department of Transportation (PennDOT) retained ms consultants, inc. to provide a Phase 1 Environmental Site Assessment (ESA) to assess the likely presence of hazardous substances or petroleum products on the subject site. The Phase I (ESA) included the following scope of services for the subject site:

1. **Subject Site Description** – Description of the project area, including location and legal description, site improvements, structures, roads, other features, site utilities, property and adjacent property use. Project vicinity, site physiology, topography, geology, and hydrology will be ascertained from readily available local, state, and federal sources.
2. **Geographical/Geological Setting** – Information regarding the physical setting of the project area, geographical and general geological features, soil type, regional bedrock, surface drainage, topography, ground water usage, etc.
3. **Parcel History** – Various private records, including insurance maps, aerial photographs, atlases, and city directories consulted as appropriate to further define historical property usage.
4. **Review of State and Federal Databases** – review of federal and state regulatory agencies regarding the location of known sites, spills or generators of any regulated/hazardous substances on or adjoining to the property, including USEPA databases, (NPL FINDS, RCRAINFO, SEMS), and others as defined by PennDOT Publication 281 guidance.
5. **Environmental Records Review** – search of specific local, state and federal public records to identify past and present land use activities, which may have resulted in contamination of the subject site. Federal record source from the United States Environmental Protection Agency (USEPA) and the State record source from the Pennsylvania Department of Environmental Protection (PADEP). The local record sources include local fire departments, health departments, emergency management agencies, and others as appropriate.
6. **Interviews** – Interviews with current property owners and federal/state/local officials regarding current and past site activities, as appropriate.
7. **Parcel Reconnaissance** – parcel reconnaissance survey of the subject site and a "windshield survey" of all adjacent properties for location of storage areas, surface contamination, drums, lagoons, above and/or underground storage tanks, depressions, and structures on properties proposed for acquisition. The level of detail for each property will be determined by the findings of the reviews, records, questionnaires and interviews indicated above.



8. **Conclusions and Recommendations** – Based upon the findings of the public records searches, agency contacts, interviews, archive search and field inspections, ms consultants, inc. will recommend, as appropriate: No Further Action, No Further Action Required at This Time, Initiate Phase II Activities, or Immediate Action Required assessment.

This report is intended for the sole use of the Pennsylvania Department of Transportation. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users. Appropriate appendices will document relevant correspondence with federal, state, and local agencies, interviews with local officials, property owners and tenants of the project area.

2.3 Special Terms and Conditions

This Environmental Site Assessment (ESA) is not an environmental audit or a detailed condition survey of the subject site to determine if the property is in compliance with all federal, state, and local laws and regulations. The following ESA issues are not included within the defined scope of services:

- Radon, lead paint, urea formaldehyde insulation, asbestos and other similar materials within any structures.
- Radon potential in soils.
- Cultural or historical resources.

This Environmental Site Assessment is not an Environmental Review Record (ERR) for U.S. HUD funded projects nor is it intended to be a definitive investigation of all contamination at the project area and any findings presented and conclusions inferred are not necessarily inclusive of all possible conditions. The level of investigation provided as a part of this limited study is defined solely by the scope of services between Pennsylvania Department of Transportation and ms consultants, inc. Note that no soil, surface water, groundwater, or other media were sampled as a part of this study; therefore, it is possible that currently unrecognized contamination may exist within the project area.

The findings and recommendations herein are intended exclusively to satisfy the needs of the user, and any use or reuse of this document or the findings, conclusions, or recommendations presented herein are at the sole risk of the user.

2.4 Limitations & Exceptions of Environmental Site Assessment

This report has been prepared for the exclusive use of the Pennsylvania Department of Transportation. The conclusions provided by ms consultants, inc., are based solely on the scope of services conducted and the sources of information referenced in this report. The Pennsylvania Department of Transportation understands that additional services could be performed as part of a Phase I ESA that may indicate the presence of hazardous and/or



regulated substances not discovered as a part of this investigation. Therefore, the findings and conclusions drawn in this report are professional opinions based solely upon the indicated information examined and described, visual observations of the project area and vicinity, and our interpretations of the available historical information and documents reviewed. The findings and recommendations presented herein are intended exclusively for the purpose outlined and the site location indicated. This report is intended for the sole use of the Pennsylvania Department of Transportation.

The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of the user. Additional findings, future operations or information made available to ms consultants, inc., subsequent to the publication of this document may modify and/or negate some or all of the findings presented herein. Any additional information that becomes available concerning the subject site should be provided to ms consultants, inc., so that the conclusions and recommendations may be reviewed and modified as necessary.

This report is not an environmental audit for regulatory compliance or a detailed condition survey of the site for the presence of asbestos containing materials (ACMs), lead paint, PCBs, petroleum products, radon and other naturally occurring, non-disposed materials or disposed materials. The conclusions regarding the site are based on observations of existing site conditions, interpretation of site history and site usage information, visual walkover assessment, and examination of local, state and federal regulatory agency databases as defined in the scope of services.

Section 3.0 Project Description

The City of Erie is experiencing a resurgence of both private and public sector development and investment in its downtown and on the waterfront. In the heart of these developments lies the Bayfront Parkway, which has served the community since the early 1990s. The parkway serves as an east-west connection, but with development, the need for north-south connections is growing. Planning studies have noted this need for greater connectivity between the waterfront and Erie's downtown and residential neighborhoods. In collaboration with local project stakeholders and the community, the Bayfront Parkway Central Corridor Improvements will enhance these connections and provide the infrastructure needed to support the growth of the region.

The proposed project involves improvements to the Central Corridor of the Bayfront Parkway. Bayfront Parkway Central Corridor Improvement Project is intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. The project must also enhance multi-modal transportation connections between the Erie Downtown community (businesses, neighborhoods, etc.) with the waterfront property. To accomplish these goals, alternatives that are being considered include:



- Grade separated intersection between State Street and Bayfront Parkway. This will reduce congestion, improve mobility, and significantly improve safety while at the same time enhancing multi-modal connections between the community and the waterfront.
- Roundabouts along the Bayfront Parkway at Sassafras Street Extension and Holland Street. These improvements are also aimed to reduce congestion and improve safety but increasing intersection capacity while simultaneously calming/slowing traffic.
- Shared use trails. Additional connections between neighborhoods, downtown, and the waterfront aim to improve mobility and integrate the Bayfront Parkway with downtown and the adjacent neighborhoods.
- As part of the Central Corridor Improvements, the existing railroad track located between Sassafras Street Extension and Holland Street will be removed to accommodate the proposed improvements. In order to maintain their operations, CSX is proposing to add additional track east of Holland Street and adjacent to the Pennsylvania Soldiers' and Sailors' Home and the Veterans Memorial Cemetery. Currently an at-grade railroad crossing exists between the Soldiers' and Sailors' Home and the Veterans Memorial Cemetery. For safety and operational concerns, this crossing will be eliminated and a multi-modal bridge over the proposed CSX tracks will be constructed, located west of the existing crossing.

Planned excavations planned within areas of potentially contaminated soil and/or sediment may be encountered at the former GAF site. While the majority of the proposed improvements located within the former GAF site are located on fill, some excavation of potentially contaminated soil and/or sediment may be encountered during construction of proposed drainage pipes/inlets, trenches for utility relocations, and sign/light pole foundations. It is anticipated these activities will have a limited footprint and specifications will be prepared and included in the contract documents to provide the contractor with specific instructions on the testing, handling, stockpiling, and proper disposal of contaminated soils, if encountered.

3.1 Subject Site

The study area for this Phase I ESA consists of the Bayfront Parkway (SR 4034) In Erie, Pennsylvania. The study area also includes The Bayfront Parkway intersections of Sassafras Street Extension, State Street, and Holland Street in the City of Erie, Erie County Pennsylvania. Based upon the City of Erie Zoning, the land use of the project area is primarily zoned Waterfront Commercial. The Phase I ESA is being performed as part of the preliminary engineering and environmental studies. General mapping such as location maps, aerial photography, soil map, and tax mapping are provided in **Appendix 1**.



3.2 Purpose and Need

Purpose:

The purpose of the project is to improve the pedestrian, bicycle, transit, and passenger vehicle connection of the Erie Central Business District and adjacent neighborhoods to the waterfront property north of the Bayfront Parkway, to reduce crashes as much as practical on the Bayfront Parkway (SR 4034), to improve future congestion to an acceptable level of service or delay, and to improve traffic operations and efficiency.

Need:

Mobility:

- Multimodal transportation connections between Downtown Erie and the Bayfront (north/south) are lacking.
- The Bayfront Parkway has limited existing transit service in the project area.
- Lack of consistent pedestrian and bicycle facilities along, or parallel to, the Bayfront Parkway.
- Lack of viable connections for pedestrians and bicycles between downtown and surrounding neighborhoods to the Bayfront.
- The Bayfront Parkway acts as a barrier to pedestrians and bicyclists traveling from downtown Erie to the Bayfront area.

Crashes:

- 80 crashes within the project limits over a 5-year period.
- The locations with the crashes were as follows:
 - 15 crashes occurred at the intersection of the Bayfront Parkway and Sassafras Street.
 - 39 crashes occurred at the intersection of the Bayfront Parkway and State Street. (3 of these crashes involved pedestrians)
 - 26 crashes occurred at the intersection of the Bayfront Parkway and Holland Street.

Operations & Efficiency:

- Existing level-of-service (LOS) for the intersection of State Street and the Bayfront Parkway is “D” for the AM peak and future year LOS is projected to be an “F” with proposed Bayfront Development.
- Future years LOS are projected to be LOS of “D” or worse at the intersections of the Bayfront Parkway and Sassafras Street Extension, State Street, and Holland Street.
- Limited gaps for left turning vehicles along the Bayfront Parkway.

** The Erie Waterfront Master Plan Summary Report, March 2009; Erie Refocused, March 2016; Bayfront Parkway Study, June 2017*



3.3 Planned Site Use

- Bayfront Parkway Central Corridor Improvement Project is intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. The project must also enhance multi-modal transportation connections between the Erie Downtown community (businesses, neighborhoods, etc) with the waterfront property. To accomplish these goals, alternatives that are being considered include:
- Grade separated intersection between State Street and Bayfront Parkway. This will reduce congestion, improve mobility, and significantly improve safety while at the same time enhancing multi-modal connections between the community and the waterfront.
- Roundabouts along the Bayfront Parkway at Sassafras Street Extension and Holland Street. These improvements are also aimed to reduce congestion and improve safety but increasing intersection capacity while simultaneously calming/slowing traffic.
- Shared Use trails. Additional connections between neighborhoods, downtown, and the waterfront aim to improve mobility and integrate the Bayfront Parkway with downtown and the adjacent neighborhoods.

3.4 Subject Site and Vicinity Characteristics

The subject site is situated in an urban environment and consists of fifty-two (52) parcels of land which total approximately 68.12 acres in size. Based upon the City of Erie Zoning, the land use of the project area is primarily zoned Waterfront Commercial. The surrounding landscape was once used for industrial operations. Large portions of the study area are within an active roadway & railroad corridor surrounded by urban areas of industrial/ commercial/ and residential use. Vegetative communities within the Bayfront Parkway Central Corridor Improvement Project study area consist of mowed vegetated upland property, and second growth forest.

Section 4.0 Background Review

A review of the background of the subject site involved examining the current and historical land uses of the project study area and vicinity. This task was accomplished via several methods:

- A review of regulatory records.
- A review of historical land use resources
- Interviews with property owners and/or operators.

As part of the public records search, federal, state and local regulatory information was obtained through Environmental Data Resources, Inc. Information provided was reviewed for sites located within various radii of the subject site per PennDOT Publication 281 and ASTM E 1527-13. A copy of the GeoSearch Report is located in **Appendix 3**.



4.1 Federal Regulatory Records Review

The federal regulatory records search was conducted in accordance with the standards established within PennDOT Publication 281. The databases reviewed include, but are not limited to, the following:

ERNSPA - Emergency Response Notification System - This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

RCRA - Resource Conservation & Recovery Act - The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste.

SEMS - Superfund Enterprise Management System- The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH - Superfund Enterprise Management System Archived Site Inventory - The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

NPL - National Priorities List - This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

AIRSAFS - Aerometric Information Retrieval System / Air Facility Subsystem - The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of



air pollution with EPA regulations: The Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS - Biennial Reporting System - The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities.

ECHOR03 - Enforcement and Compliance History Information - The U.S. Environmental Protection Agency's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

FRSPA - Facility Registry System - The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

ICIS - Integrated Compliance Information System (Formerly Dockets) - ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: The Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act – Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES - Integrated Compliance Information System National Pollutant Discharge Elimination System- Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database is provided by the U.S. Environmental Protection Agency.

NPDESRO3 - National Pollutant Discharge Elimination System - Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the



United States. The NPDES database was collected from the U.S. Environmental Protection Agency (EPA) from December 2002 through April 2007

PADS - PCB Activity Database System - PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of Polychlorinated Biphenyls (PCB) who are required to notify the U.S. Environmental Protection Agency of such activities.

TRI - Toxics Release Inventory- The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

HISTOUCHING/ ADJACENTST - Historical Gas Stations - This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Federal regulatory information was obtained through GeoSearch. The search area requested extended 1-mile radius of the project study area, which is provided on the GeoSearch radius maps. A copy of the GeoSearch Report is located in **Appendix 3**.

4.1.1 Emergency Response Notification System (ERNSPA)

According to GeoSearch database, nine (9) sites were touching or adjacent to the project area. The sites obtained from ERNSPA are not expected to result in an impact to the project, due to the fact that all spills appear to have been remediated or resolved within the subject site.

Name / Address	Distance From Project	Activity
DONJON SHIPBUILDING REPAIR 220 E. BAYFRONT PKWY ERIE, PA 16507	TOUCHING/ ADJACENT	12/17/2017) Caller reports a discharge of an unknown amount of lube oil (omala 150) caused by an unknown equipment failure (possible port z drive unit seal) on a vessel at a dock. caller reports the sheen is contained within an oil boom, and is naturally dissipating, absorbent pads will be utilized.
DONJON SHIPBUILDING REPAIR 220 E. BAYFRONT PKWY ERIE, PA 16507	TOUCHING/ ADJACENT	8/6/2018) Caller stated while building a dredge 150 gallons of bio-degradable hydraulic fluid released from a hydraulic pump on the barge that malfunctioned. Two booms are in place, sweepers are performed clean up.
GAF BLDG MATERIALS 218 W BAYFRONT PKWY ERIE, PA	TOUCHING/ ADJACENT	8/3/2001) 2 Gallons Motor oil released from the motor of the tractor trailer truck due to an oil leak reaching water. Booms applied, absorbents applied, material contained.
GAF BLDG MATERIALS 218 W BAYFRONT PKWY ERIE, PA	TOUCHING/ ADJACENT	5/9/2003) 1500 gallons of asphalt released from a storage tank due to an overflow. 100 gallons reached water. The asphalt was contained, and cleaned.
BETWEEN THE SHERATON DOCKS & PRESQUE ISLE YACHT CLUB DOCKS 120 W FRONT ST, ERIE, PA 16512	TOUCHING/ ADJACENT	4/28/2012) reported unknown sheen from an unknown source, remedial action not reported.
120 W FRONT ST, ERIE, PA 16512	TOUCHING/ ADJACENT	10/31/1995) materials dumping into bay from 2.5ft storm drain / causing green discoloration of water
EAST 5TH ST AND WAYNE ST ERIE, PA 16512	TOUCHING/ ADJACENT	1/27/1993) 10" Natural gas distribution pipeline/release due to unknown cause while performing maintenance on the line, fire was extinguished, leak was secured, the line



		pressure=6 ounces, service to 8 residences was interrupted while repairs were performed.
CHESTNUT FILTRATION PLANT 340 WEST BAYFRONT PWY, ERIE, PA 16507	0.01 mi.	8/13/1999) 1 Ton Chlorine Container / The Chlorine / 100 Pound(S) Released Due To A Faulty regulator, First Response Team Deployed / Isolated The Area.
UNITED ERIE FACILITY, ERIE, PA	0.015 mi	6/14/1991) Fire and explosion occurred at a factory. most of the furfuryl alcohol / 2995 gallon(s) released was consumed in the fire. fire dept. responded and fought fire; firefighting water may have flushed 5 gallons down a storm sewer.

4.1.2 Resource Conservation & Recovery Act (RCRA)

There are zero (0) RCRA Sites with Controls (RCRASC) located within a 1.0-mile radius of the project study area. There are seven (7) Resource Conservation & Recovery Act - Generator (RCRAGR03) facilities located within a 0.125-mile radius of the project study area. There are four (4) Resource Conservation & Recovery Act – Nongenerator (RCRANGR03) facilities located within a 0.125-mile radius of the project study area. There are zero (0) No Longer Regulated RCRA Non-Corrupts TSD Facilities (NLRRCRAT) located within a 0.5-mile radius of the project study area. There is one (1) Resource Conservation & Recovery Act - Non-Corrupts Treatment, Storage & Disposal Facility (RCRAT) located within a 0.5-mile radius of the project study area. There are zero (0) No Longer Regulated RCRA Corrective Action Facilities (NLRRCRAC) within a 1.0-mile radius of the project study area. There is one (1) Resource Conservation & Recovery Act – Corrective Action Facility (RCRAC) within a 1.0-mile radius of the project study area. There are two (2) Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC) within a 1.0-mile radius of the subject site.

Site Name And Address	Type	Status	Violations	Distance from Project Area (mile)
DONJON SHIPBUILDING & REPAIR 220 E BAYFRONT PKWY, ERIE, PA 16507	RCRAGR03	SMALL QUANTITY GENERATOR	VIOLATIONS REPORTED (see text below)	TOUCHING/ ADJACENT
GAF BLDG MATERIALS 218 W BAYFRONT PKWY, ERIE, PA 16507	RCRAGR03	NON-GENERATOR	VIOLATIONS REPORTED (see text below)	TOUCHING/ ADJACENT
PHMC FLAGSHIP NIAGARA 164 E FRONT ST, ERIE, PA 16507	RCRAGR03	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR	NO VIOLATIONS REPORTED	0.003 mi
ERIE CITY WATER AUTH 340 W BAYFRONT PKWY, ERIE, PA 16507	RCRAGR03	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR	NO VIOLATIONS REPORTED -	0.01 mi
PENELEC FRONT ST STATION 124 FRONT ST, ERIE, PA 16507	RCRAGR03	NON-GENERATOR	NO VIOLATIONS REPORTED	0.011 mi
UPMC HAMOT MEDICAL CTR 201 STATE ST, ERIE, PA 16550	RCRAGR03	SMALL QUANTITY GENERATOR	VIOLATIONS REPORTED (see text below)	0.019 mi
NIAGARA MACH 325 W FRONT ST, ERIE, PA 16507	RCRAGR03	NON-GENERATOR	NO VIOLATIONS REPORTED	0.041 mi
ERIE SAND & GRAVEL 2 E BAY DR/PORT ACCESS RD, ERIE, PA 16507	RCRANGR03	SMALL QUANTITY GENERATOR	NO VIOLATIONS REPORTED	0.062 mi
NATIONAL FUEL GAS DISTR CO ERIE SVC CTR	RCRANGR03	CONDITIONALLY EXEMPT SMALL	NO VIOLATIONS REPORTED	0.067 mi



225 WAYNE ST, ERIE, PA 16507		QUANTITY GENERATOR		
MEDI-CENTER HOSPITAL 137 W 2ND ST, ERIE, PA 16503	RCRANGR03	NON- GENERATOR	NO VIOLATIONS REPORTED	0.071 mi
FAMILY DOLLAR STORE NO 3779 856 E 6TH ST ERIE, PA 16507	RCRANGR03	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR	NO VIOLATIONS REPORTED	0.082 mi
ERIE COKE EAST AVE, ERIE, PA 16512	RCRAT	SMALL QUANTITY GENERATOR	VIOLATIONS REPORTED 06/04/1990 262.A GENERATORS – GENERAL 10/20/1987 262.A GENERATORS - GENERAL 05/13/1987 262.A GENERATORS - GENERAL	0.326 mi
ACCU RIDE ERIE LP 1015 E 12TH ST, ERIE, PA 16503	RCRAC	NON- GENERATOR	VIOLATIONS REPORTED 08/06/1997 262.C GENERATORS - PRE- TRANSPORT 06/27/1990 264.A TSD - GENERAL	0.684 mi
ERIE COKE EAST AVE, ERIE, PA 16512	RCRASUBC	SMALL QUANTITY GENERATOR	VIOLATIONS REPORTED 06/04/1990 262.A GENERATORS – GENERAL 10/20/1987 262.A GENERATORS - GENERAL 05/13/1987 262.A GENERATORS - GENERAL	0.326 mi
AMER METER 920 PAYNE AVE, ERIE, PA 16512	RCRASUBC	NON- GENERATOR	VIOLATIONS REPORTED 05/09/1997 262.C GENERATORS - PRE- TRANSPORT 01/08/1997 262.C GENERATORS - PRE- TRANSPORT 02/21/1990 FEA FORMAL ENFORCEMENT AGREEMENT OR ORDER 12/14/1989 264.A TSD - GENERAL 12/14/1989 268.A LDR - GENERAL 12/04/1987 264.A TSD - GENERAL	0.659 mi

DONJON SHIPBUILDING & REPAIR Violations are as Follows:

- | | |
|---|---|
| <ul style="list-style-type: none"> • 03/28/2014 262.C GENERATORS - PRE-TRANSPORT • 03/28/2014 265.I TSD IS-CONTAINER USE AND MANAGEMENT • 03/28/2014 XXS STATE STATUTE OR REGULATION • 02/02/2012 262.C GENERATORS - PRE-TRANSPORT • 02/02/2012 264.I TSD - CONTAINER USE AND MANAGEMENT • 02/02/2012 XXS STATE STATUTE OR REGULATION | <ul style="list-style-type: none"> • 01/05/2010 262.C GENERATORS - PRE-TRANSPORT • 01/05/2010 265.I TSD IS-CONTAINER USE AND MANAGEMENT • 01/05/2010 XXS STATE STATUTE OR REGULATION • 12/14/2007 262.B GENERATORS - MANIFEST • 12/14/2007 262.D GENERATORS - RECORDS/REPORTING • 07/06/2004 262.C GENERATORS - PRE-TRANSPORT |
|---|---|

DONJON SHIPBUILDING & REPAIR Hazardous Waste:

- | | |
|--|--|
| <ul style="list-style-type: none"> • D001 IGNITABLE WASTE • D002 CORROSIVE WASTE • D003 REACTIVE WASTE • D005 BARIUM • D006 CADMIUM | <ul style="list-style-type: none"> • D007 CHROMIUM • D008 LEAD • D018 BENZENE • D035 METHYL ETHYL KETONE |
|--|--|

GAF BLDG MATERIALS Violations are as Follows:

- 12/10/1987 262.A GENERATORS – GENERAL



NO HAZARDOUS WASTE INFORMATION WAS REPORTED:

- More information about GAF represented in DEP File Review

UPMC HAMOT MEDICAL CTR Violations are as Follows:

- 07/30/2003 262.C GENERATORS - PRE-TRANSPORT
- 07/30/2003 262.D GENERATORS - RECORDS/REPORTING
- 04/25/2002 262.C GENERATORS - PRE-TRANSPORT
- 02/11/2002 262.A GENERATORS - GENERAL
- 09/12/2000 262.C GENERATORS - PRE-TRANSPORT
- 04/11/1997 262.B GENERATORS - MANIFEST

UPMC HAMOT MEDICAL CTR Hazardous Waste:

- D001 IGNITABLE WASTE
- D002 CORROSIVE WASTE
- D006 CADMIUM
- D008 LEAD
- D009 MERCURY
- D011 SILVER

4.1.3 Superfund Enterprise Management System (SEMS)

No SEMS sites are located within a 1.0-mile radius of the project area.

Five (5) SEMS sites are located within a 0.5-mile radius of the subject site.

1. GAF Bldg Materials - 218 W Bayfront Pkwy, Erie, PA 16507: Distance from Property: 0 mi. (0 ft.) Elevation: 581 ft. (Lower than TOUCHING/ ADJACENT) NON NPL STATUS: NFRAP-site does not qualify for the NPL based on existing information. vs - (archive site) - the decision is made that no further activity is planned at the site.
2. Wayne Street Dump - East Bayfront Rd - End of, Erie, PA 16501: Distance from Property: property displayed on Geosearch is not located in proper area. Wayne street Dump coordinates are 42°08'49.0"N 80°04'53.7"W NON NPL STATUS: NFRAP-site does not qualify for the NPL based on existing information. vs - (archive site) - the decision is made that no further activity is planned at the site.
3. Penelec-Front Street - 124 Front St, Erie, PA 16507: Distance from Property: 0.011 mi. (58 ft.) Elevation: 582 ft. (Lower than TOUCHING/ ADJACENT) NON NPL STATUS: NFRAP-site does not qualify for the NPL based on existing information. Vs - (archive site) - the decision is made that no further activity is planned at the site.
4. Erie Coke Corp- Foot of East St, Erie, PA 16501: Distance from Property: 0.326 mi. (1,721 ft.) Elevation: 588 ft. (Lower than TOUCHING/ ADJACENT) NON NPL STATUS: NFRAP-SITE does not qualify for the NPL based on existing information. vs - (archive site) - the decision is made that no further activity is planned at the site.



5. North Creek Road Landfill #70 - 606 W 2nd tT, ERIE, PA 16507: Distance from Property: 0.345 mi. (1,822 ft.) Elevation: 641 ft. (Higher than TOUCHING/ ADJACENT) NON NPL STATUS: NFRAP-site does not qualify for the NPL based on existing information. Vs - (archive site) - the decision is made that no further activity is planned at the site.

4.1.4 National Priorities List (NPL)

No NPL sites are located within a 1.0-mile radius of the subject site.

4.1.5 Aerometric Information Retrieval System / Air Facility Subsystem (AIRSAFS)

One (1) AIRSAFS is located within a 0.5-mile radius of the subject site.

DONJON SHIPBUILDING & REPAIR, LLC – ERIE, 220 E BAYFRONT PKWY ERIE, PA 16507-2402
Distance from Property: 0 mi. (0 ft.) The establishment is primarily engaged in building and repairing ships, barges, and lighters, whether self-propelled or towed by other craft. Donjon Shipbuilding & Repair LLC is classified as: potential emissions are below all applicable major source enforceable regulations or limitations.

4.1.6 Biennial Reporting System (BRS)

One (1) BRS is located within a 0.5-mile radius of the project area.

DONJON SHIPBUILDING & REPAIR, LLC – ERIE, 220 E BAYFRONT PKWY ERIE, PA 16507-2402
Distance from Property: 0 mi. (0 ft.) Wastes described at 4.1.2 Resource Conservation & Recovery Act. The EPA has no records of Generated Waste Managed on site for this Facility. All waste is transported and managed offsite.

4.1.7 Enforcement and Compliance History Information (ECHOR03)

Seven (7) ECHOR03 sites are located within a 0.5-mile radius of the subject site.

Name/ Address	Distance From Site	Violations
DONJON SHIPBUILDING & REPAIR 220 E BAYFRONT PKWY, ERIE,PA 16507	TOUCHING/ ADJACENT	No Violation Identified w/in 1 Year
GAF BLDG MATERIALS 218 W BAYFRONT PKWY, ERIE,PA 16507	TOUCHING/ ADJACENT	No Violation Identified w/in 1 Year
HAMPTON INN - HARBOR PLACE EAST FRONT STREET, ERIE, CITY OF, PA 16507	0.009 mi. (48 ft.)	No Violation Identified w/in 1 Year
PHMC FLAGSHIP NIAGARA 164 E FRONT ST, ERIE, PA 16507	0.003 mi. (16 ft.)	No Violation Identified w/in 1 Year
CHESTNUT FILTRATION PLANT 340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	0.01 mi. (53 ft.)	No Violation Identified w/in 1 Year
PENELEC FRONT ST STATION 124 FRONT STREET,	0.011 mi. (58 ft.)	No Violation Identified w/in 1 Year



ERIE, PA 16507		
UPMC HAMOT/ERIE 201 STATE ST, ERIE, PA 16550	0.019 mi. (100 ft.)	Clean Air Act Violation w/in 1 Year

4.1.8 Facility Registry System (FRSPA)

Thirty-one (31) FRSPA are located within or adjacent to the subject site. **See Table 1**

4.1.9 Integrated Compliance Information System (ICIS) and Integrated Compliance Information System National Pollutant Discharge Elimination System (ICISNPDES)

Three (3) ICIS and Two (2) ICISNPDES are located within or adjacent to the subject site. **See Table 1**

4.1.10 National Pollutant Discharge Elimination System (NPDES R03)

Two (2) are NPDES R03 located within or adjacent to the subject site. **See Table 1**

4.1.11 PCB Activity Database System (PADS)

One (1) PADS is located 0.011 mi. from the subject site. Name: Penelec Front Street Stn
Location: Front and State Sts, Erie, PA 16507-0000

4.1.12 Toxics Release Inventory (TRI)

One (1) TRI is located adjacent to the project area. Building Materials Corp of America located at 218 W Bayfront Pkwy Erie, Pa 16507. This U.S. industry comprises of establishments primarily engaged in (1) saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials and (2) manufacturing asphalt and tar and roofing cements and coatings from purchased asphaltic materials. The chemical/s released consists of polycyclic aromatic compounds, lead compounds, and benzo(g,h,i)perylene.

Report Year	Fugitive Air	Stack Air	Water Release	Class I Injection Wells	Class II- V Injection Wells	RCRA C / Other Landfills	Land Treatment
2006	0.00	0.60	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.60	0.00	0.00	0.00	0.00	0.00
2004	0.00	0.60	0.00	0.00	0.00	0.00	0.00
2003	0.00	0.50	0.00	0.00	0.00	0.00	0.00
2002	0.00	0.50	0.00	0.00	0.00	0.00	0.00
2001	0.00	0.50	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.14	0.00	0.00	0.00	0.00	0.00

4.1.13 Historical Gas Stations (HISTOUCHING/ ADJACENTST)

One (1) HISTOUCHING/ ADJACENTST is located 0.0233 mi away from the subject site. This location is the Penn Oil Company located at 7th & East St Erie PA

4.2 State Environmental Records

The Pennsylvania regulatory records were obtained through GeoSearch. The search area



requested extends a 1-mile radius of the project study area, which is provided on the GeoSearch radius maps. A copy of the GeoSearch Report is located in **Appendix 3**. The databases reviewed include, but are not limited to, the following:

AUL- Activity and Use Limitations: The Pennsylvania Activity and Use Limitations Registry identifies properties within the Commonwealth where any type of Activity and Use Limitation (AUL) has been imposed and of which Pennsylvania Department of Environmental Protection (PADEP) has been informed. AULs are restrictions or obligations with respect to real property. The term includes engineering controls and institutional controls. The PADEP is obligated under Uniform Environmental Covenants Act to maintain a registry for the public display of covenants received.

RST - Registered Storage Tanks: According to the Pennsylvania Department of Environmental Protection (PADEP), storage tanks are aboveground or underground, and are regulated under Chapter 245 pursuant to the Storage Tank and Spill Prevention Act. Storage tanks currently contain, have contained in the past, or will contain in the future, petroleum or a regulated hazardous substance. Above ground storage tanks that either contain hazardous materials or have a capacity greater than 21,000 gallons are removed.

LRST- Leaking Registered Storage Tanks: This list represents confirmed release incidents that have been reported to Pennsylvania Department of Environmental Protection (PADEP) since enactment of the Storage Tank and Spill Prevention Act (Tank Act). These release incidents represent leaks, spills and overfills which have occurred from both aboveground and belowground storage tank systems regulated by the Tank Act only. Releases from home heating oil tanks, which are not regulated by the Tank Act, are not part of this list. The purpose of this list is to provide information on the cleanup status of all known release incidents which have occurred from regulated storage tank systems in Pennsylvania.

MWO - Municipal Waste Operations: A Municipal Waste Operation is a Pennsylvania Department of Environmental Protection (PADEP) primary facility type related to the Waste Management Municipal Waste Program. The sub-facility types related to Municipal Waste Operations that are included are Composting Facilities, Land Application, Abandoned Landfills (Abandoned Landfill Inventory), Active and Inactive Landfills, Processing Facilities, Resources Recovery Facilities, and Transfer Stations.

SWF - Solid Waste Facilities: This list of Municipal Waste Landfills, Construction and Demolition Waste Landfills, and Resource Recovery (Waste-to-Energy) Facilities is provided by the Pennsylvania Department of Environmental Protection.

VCP - Voluntary Cleanup Sites: Also known as Act 2, the Pennsylvania Department of Environmental Protection (PADEP) Land Recycling Program encourages the voluntary cleanup and reuse of contaminated commercial and industrial sites. This list includes Completed Sites, Sites in Progress, and Act 2 - Non-Use Aquifer Determinations Sites.



SHWS - State Hazardous Waste Sites: The Hazardous Site Response Actions List represents hazardous sites response actions that have been taken since the enactment of the Hazardous Sites Cleanup Act (HSCA) in 1988. The HSCA provides the Department of Environmental Protection (PADEP) the authority to conduct cleanup actions at hazardous substances releases.

AIRS - Air Permitted Facilities: This list of facilities with air permits is provided by the Pennsylvania Department of Environmental Protection.

SPILLS - Spills Listing: This list of hazardous material spills is provided by the Pennsylvania Department of Environmental Protection.

UIC - Underground Injection Control Wells: A partial list of underground injection control wells is maintained by the Pennsylvania Department of Environmental Protection. PADEP maintains a list of Class II enhanced recovery and brine disposal wells.

CLEANERS - Dry Cleaners: The database includes dry cleaning facilities registered with the Pennsylvania Department of Environmental Protection.

ODINDIAN - Open Dump Inventory On Tribal Lands: This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES - Indian Reservations: The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

Most of this information can be downloaded from the Web. A copy of all downloads and state file requests can be found in **Appendix 4**.

4.2.1 Activity and Use Limitations (AUL):

Two (2) AUL properties were located adjacent to the subject site.

Name	Address	Facility Type	AUL Code
ERIE CNTY CONVENTION CTR AUTH BAYFRONT SITE	218 W BAYFRONT PKWY ERIE, PA 16507-2008	LAND RECYCLING CLEANUP LOCATION	ENVIRONMENTAL COVENANT
CSX BAYFRONT SITE FMR	W SASSAFRAS ST-N BAYFRONT PKWY ERIE, PA 16501	LAND RECYCLING CLEANUP LOCATION	ENVIRONMENTAL COVENANT

4.2.2 Registered Storage Tanks (RST):

Twenty (20) properties containing RST were located within 0.25 miles of the subject site. **See Table 1** Four adjacent properties contained registered storage tanks are represented below:



Name / Address	Tank Size	Tank Type	Substance Type	Closed / Open	Distance from Project
FRONT STREET GENERATING STA FRONT ST & STATE ST ERIE, PA 16507	14,000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	50,000	AST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	700	AST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	8000	AST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	7800	AST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	5000	AST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	8500	AST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	8000	AST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	5000	AST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
BAYSHORE MARINE 133 E BAYFRONT ST ERIE, PA 16507	10000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	2000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	2000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	2000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	2000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	2000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
HAMOT MED CTR 200 STATE ST ERIE, PA 16550-0001	8000	UST	DIESEL	Closed	TOUCHING/ ADJACENT
HAMOT MED CTR 201 STATE ST ERIE, PA 16550-0002	15000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	15000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT
	15000	UST	NOT REPORTED	Closed	TOUCHING/ ADJACENT

4.2.3 Leaking Registered Storage Tanks (LRST):

Thirteen (13) LRST were located within 0.5 miles of the subject site. All Leaking storage tanks within the project area have a completed clean up.

Name / Address	Tank Type	Substance Type	Clean up Completed	Environmental Impact	Distance from Project
FRONT STREET GENERATING STA FRONT ST & STATE ST ERIE, PA 16507	UST	PETROLEUM	CLEANUP COMPLETED	Soil/ Groundwater	TOUCHING/ ADJACENT
	UST	HAZARDOUS SUBSTANCES	CLEANUP COMPLETED	Soil	TOUCHING/ ADJACENT
PA SOLDIERS & SAILORS HOME 560 E 3RD ST ERIE, PA 16512	UST	DIESEL	CLEANUP COMPLETED	Soil	0.047 mi
ERIE SAND & GRAVEL CO FOOT OF SASSAFRAS ST ERIE, PA 16507	AST	DIESEL	Cleanup Status Date: 12/28/1999 ERIE BAYFRONT CONVENTION CENTER NOW LOCATED ON SITE	Soil	0.062 mi
NFG ERIE SVC CTR 225 WAYNE ST ERIE, PA 16507	UST	UNLEADED GASOLINE	CLEANUP COMPLETED	Soil / Groundwater	0.067 mi
ERIE WWTOUCHING/ ADJACENT 68 PORT ACCESS RD, ERIE, PA 16507	UST	DIESEL FUEL	CLEANUP COMPLETED	Soil	0.097 mi
SIMON BLDG PROD 834 E 8TH ST ERIE, PA 16503	UST	UNLEADED GASOLINE	CLEANUP COMPLETED	Soil	0.122 mi
MCALLISTER MARINA E BAY FRONT ERIE, PA 16507	UST	UNLEADED GASOLINE	CLEANUP COMPLETED	Soil	0.14 mi



ATLANTIC 0363 8756 CO OP 4047 954 E 6TH ST ERIE, PA 16507	UST	PETROLEUM	Cleanup Status Date: 12/28/1989 CORRECTIVE ACTION/TANK CLOSURE REQUIREMENTS REMAIN OUTSTANDING	Groundwater / Soil	0.194 mi
ERIE SCH DIST BUS GARAGE 857 E 9TH ST ERIE, PA 16503	UST	UNLEADED GASOLINE	Cleanup Status Date: 02/04/2000 CORRECTIVE ACTION/TANK CLOSURE REQUIREMENTS REMAIN OUTSTANDING	Soil	0.216 mi
ERIE SPEED CHECK 209 E 6TH ST ERIE, PA 16507	UST	UNLEADED GASOLINE	CLEANUP COMPLETED	Soil/ Groundwater	0.308 mi
KWIK FILL M 8 1101 E LAKE RD ERIE, PA 16500	UST	UNLEADED GASOLINE	CLEANUP COMPLETED	Groundwater/ Soil	0.361 mi.
EAST AVENUE SPEED CHECK 1001 EAST AVE ERIE, PA 16503	UST	UNLEADED GASOLINE	CLEANUP COMPLETED	Groundwater/ Soil	0.384 mi
HOLIDAY MART II 605 PARADE ST ERIE, PA 16503	UST	UNLEADED GASOLINE	CLEANUP COMPLETED	Groundwater/ Soil	0.4 mi

4.2.4 Municipal Waste Operations (MWO):

Three (3) MWO are located within 0.5 miles of the subject site.

1. Wayne Street Dump- 0.5 Miles away from the Project Area (in compliance)
2. UPMC Hamot- Amot Medical Center – incinerator (in compliance) Active
3. Erie City touching/ adjacent - Erie City Yard Waste Compost Facility (in compliance) Active

4.2.5 Solid Waste Facilities (SWF):

Two (2) SWF are located within 0.5 miles of the subject site.

1. Wayne Street Dump- 0.5 Miles away from the Project Area (in compliance)
2. UPMC Hamot- Amot Medical Center – Incinerator (in compliance) Active

4.2.6 Voluntary Cleanup Sites (VCP):

Seven (7) VCP are located within 0.5 miles of the subject site. Of the properties Erie County Convention Center Authority Bayfront Site, CSX Bayfront Site FMR, GPU Front Street Station Penelec are located adjacent to the subject site.

1. Erie County Convention Center Authority Bayfront Site - Remediation Standard: site-specific standard
2. CSX Bayfront Site FMR - Remediation Standard: site-specific standard (AUL)
3. GPU Front St Station Penelec - Remediation Standard: Statewide Health Standard (AUL)
4. Natl Fuel Gas- Remediation Standard: site-specific standard (In Progress)
5. Natl Fuel Gas Erie Svc Center - Remediation Standard: site-specific standard (AUL)
6. Erie Speed Check - Remediation Standard: Statewide Health Standard
7. Erie City Iron Works - Remediation Standard: site-specific standard (AUL)



4.2.7 Hazardous Substances have been released (SHWS):

One (1) SHWS (Erie Resistor Site) is located 0.986 miles away from the subject site.

4.2.8 Air Permitted Facilities (AIRS):

Five (5) AIRS are located adjacent to the subject site.

1. Donjon Shipbuilding & Repair LLC/Erie (Active)
2. Bldg Materials Mfg Corp/Erie (Inactive/Closed)
3. GAF Corp/Lakefront (Inactive/Closed)
4. Penelec/Front St (Active)
5. Upmc Hamot/Erie (Active)

4.2.9 Spills Listing (SPILLS):

Four (4) SPILLS are located adjacent to the subject site.

Name /Address	Distance from Project	Spill Type
GAF BUILDING MATERIALS CORPORATION 218 W BAYFRONT PARKWAY PA 16507	TOUCHING/ ADJACENT	OIL SPILL, CRANKCASE OIL
GAF BUILDING MATERIALS CORPORATION 218 W BAYFRONT PARKWAY PA 16507	TOUCHING/ ADJACENT	ROOFING ASPHALT SPILL, ASPHALT - ROOFING 2000 GAL
GAF BUILDING MATERIALS CORPORATION 218 W BAYFRONT PARKWAY PA 16507	TOUCHING/ ADJACENT	ROOFING ASPHALT SPILL, ASPHALT - ROOFING 250 GAL
UPMC HAMOT MEDICAL CTR 201 STATE STREET PA 16501	0.019 mi	WATER MAIN BREAK

4.2.10 Underground Injection Control Wells (UIC):

One UIC is located adjacent to the project area. Operator: Erie Western PA Port Authority, well status: plugged vertical well.

4.2.11 Dry Cleaners (CLEANERS):

Zero (0) CLEANERS are located within 0.25 mi of the subject site.

4.2.12 Open Dump Inventory On Tribal Lands (ODINDIAN):

Zero (0) ODINDIAN are located within 0.25 mi of the subject site.

4.2.13 Indian Reservations (INDIANRES):

Zero (0) INDIANRES are located within 0.25 mi of the subject site.

4.2.14 Pennsylvania Department of Environmental Protection

On January 2, 2020 a file review was completed at the Pennsylvania Department of Environmental Protection (PADEP), Northwest Regional Office. The purpose of the file review was to assess environmental concerns in the general vicinity of the subject site.

Specific files were requested for review for the following sites:

**GAF Building Materials / Building
Materials Manufacturing Corp**
218 WEST BAYFRONT PARKWAY

**PENELEC/ GPU Front Street
Sta. / HAMPTON INN -HARBOR
PLACE**

Bayshore Marine
133 E BAYFRONT ST, ERIE,
PA 16507



ERIE, PA 16507

FRONT ST & STATE ST, ERIE PA,16507

Erie Sand & Gravel

FOOT OF SASSAFRAS ST
ERIE, PA 16507

Hamot Med Center

201 STATE STREET
ERIE, PA 16550

Donjon Shipbuilding

220 E BAYFRONT PKWY
ERIE, PA 16507

Wayne Street Dump

EAST BAYFRONT RD - END OF,
ERIE, PA 16501

NFG Erie/PA Gas Sta.

225 WAYNE ST,
ERIE, PA 16507

PA Soldiers & Sailors Home

560 E 3RD ST,
ERIE, PA 16512

See Section 4.3.6 and **Appendix 4** for file review findings.

4.2.15 Oil and Natural Gas Well Maps

The Pennsylvania Department of Environmental Protection (PADEP) Bureau of Oil & Gas is responsible for the statewide oil & gas conservation and environmental programs to facilitate the safe exploration, development and recovery of Pennsylvania’s oil & gas reservoirs in a manner that will protect the Commonwealth’s natural resources and the environment. The Bureau develops policy and programs for the regulation of oil & gas development and production pursuant to the Oil & Gas Act, the Coal and Gas Resources Coordination Act, and the Oil & Gas Conservation Law; oversees the oil & gas permitting and inspection programs for industry; and works with the Interstate Oil & Gas Compact Commission and the Technical Advisory Board. Available oil & gas information was obtained from both agencies to ascertain locations of oil and natural gas wells within 0.25-mile radius of the project study area. Environmental concerns with oil and natural gas wells include the locations of temporary pits during drilling operations, the ultimate disposal of said fluids (brine, acids, petroleum products) at the well site, and the releases of petroleum products (crude oil, tars, light oils) at the wellhead, piping, and tank battery areas.

Oil and Gas information was available on line through the PADEP website. Examination of this information indicated there was fourteen (14) oil and/or gas wells located within 0.25-mile of the project study area. Oil wells adjacent to the project area have been plugged. All active wells are not within or adjacent to proposed construction activity areas.

Oil and Natural Gas Well Maps

Site Name	Operator	Well Type	Well Statu	Latitude	Longitude	Well Confi	Date Plugg
*LARRY 1 OG WELL	ERIE WESTERN PA PORT AUTH	GAS	Plugged OG Well	42.136157	-80.092538	Vertical Well	10/11/1989
*ERIE SAND & GRAVEL 1 OG WELL	ERIE WESTERN PA PORT AUTH	GAS	Plugged OG Well	42.135171	-80.09329	Vertical Well	11/11/2005
*GAF 1 OG WELL	GAF CORP	GAS	Plugged OG Well	42.134973	-80.094393	Vertical Well	10/3/2012
WAYNE PARK BAPTIST TEMPLE 1 OG WELL	WAYNE PARK BAPTIST CH TEMPLE	GAS	Active	42.138131	-80.063364	Vertical Well	<Null>
ANTHONY ALECCI 2 OG WELL	ANTHONY S & MARY ANN ALECCI	GAS	Active	42.130724	-80.086782	Vertical Well	<Null>
ST HEDWIGS R C CH 1 OG WELL	ST HEDWIGS RC CH	GAS	Active	42.136481	-80.075715	Vertical Well	<Null>



WAYNE MID SCH 650 EAST AV 1 OG WELL	ERIE CITY SCH DIST	UNDETERMINED	Active	42.136838	-80.063428	Vertical Well	<Null>
GOOSSEV 1 OG WELL	GANNON UNIV	GAS	Active	42.130175	-80.091574	Vertical Well	<Null>
JANITORS SUPPLY 1 OG WELL	MASCHARDA EDWARD P JR	GAS	Active	42.138402	-80.076453	Vertical Well	<Null>
KOWALSKI 1 OG WELL	ACTION PRINTING & BUS FORMS INC	GAS	Active	42.133465	-80.065391	Vertical Well	<Null>
ST JAMES SCH 2602 BUFFALO RD 1 OG WELL	ST JAMES CATH CH	UNDETERMINED	Operator Reported Not Drilled	42.138278	-80.071889	Vertical Well	<Null>
THOMAS L KAISER 1 OG WELL	DAVID ANDREW & JUDITH A TUSZYNSKI	GAS	Active	42.135986	-80.071309	Vertical Well	<Null>
CH OF THE HOLY NATIVITY 2 OG WELL	HALL DRILLING CO	GAS	Active	42.136313	-80.082083	Vertical Well	<Null>
CH OF THE HOLY NATIVITY 1 OG WELL	HALL DRILLING CO	GAS	Active	42.13569	-80.083097	Vertical Well	<Null>

* indicates within project study area

4.3 Local Regulatory Records Review

The objective of the local public record search is to solicit all of the available information relative to the subject site and adjacent parcels. The following local agencies were contacted:

- 4.3.1 City of Erie Fire Department
- 4.3.2 City of Erie Police Department
- 4.3.3 Erie County Hazardous Materials Response Team
- 4.3.4 City of Erie Planning Commission
- 4.3.5 Erie County Planning Commission
- 4.3.6 PA Department of Military and Veterans Affairs
- 4.3.7 Erie - Western PA Port Authority
- 4.3.8 PADEP File Review

4.3.1 City of Erie Fire Department

A questionnaire was sent to City of Erie Fire Department on December 3, 2019 regarding spills, accidents, hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. At the time of writing this report, this agency has not responded to the request. If the information received changes the findings and conclusions of this report, an addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

4.3.2 City of Erie Police Department

A questionnaire was sent to City of Erie Police Department on December 3, 2019 regarding spills, accidents, hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. At the time of writing this report, this agency has not responded to the request. If the information received changes the findings and conclusions of this report, an



addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

4.3.3 Erie County Hazardous Materials Response Team

A questionnaire was sent to City of Erie Police Department on December 3, 2019 regarding spills, accidents, hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. At the time of writing this report, this agency has not responded to the request. If the information received changes the findings and conclusions of this report, an addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

4.3.4 City of Erie Planning Commission

A questionnaire was sent to City of Erie Planning Commission on December 3, 2019 regarding spills, accidents, hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. At the time of writing this report, this agency has not responded to the request. If the information received changes the findings and conclusions of this report, an addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

4.3.5 Erie County Planning Commission

A questionnaire was sent to Erie County Planning Commission on December 3, 2019 regarding spills, accidents, hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. The Erie County Planning Commission forwarded this request to the County of Erie Department of Health. They indicated that they did not locate any environmental problems regarding the requested subject site, but did indicate illegal dumping of garbage, and household trash from Holland Street to approximately Ash Street. If the information received changes the findings and conclusions of this report, an addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

4.3.6 PA Department of Military and Veterans Affairs

A questionnaire was sent to PA Department of Military and Veterans Affairs on December 3, 2019 regarding spills, accidents, involving hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. The PA Department of Military and Veterans Affairs responded in regards to the in PA Soldiers & Sailors Home on 560 E 3rd St Erie, PA 16512. The response indicated:

- Commonwealth of Pennsylvania has owned the property since 1885.
- A 2000-gallon Underground Storage Tank (UST) was removed no others are on property.
- The property contains Storm Water retention basins behind maintenance buildings.
- The property experiences the illegal dumping of tires, which is cleaned once a month.



- The property contains switchgear transformers, with Penelec, as the provider.
- The property once contained asbestos at the nursing care building, personal Care facility, but it was removed during construction.
- Lead based paint was found in the PCU buildings but was encapsulated.

4.3.7 Erie - Western PA Port Authority

A questionnaire was sent to the Erie - Western PA Port Authority on December 3, 2019 regarding spills, accidents, involving hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. The Erie - Western PA Port Authority responded in regards to (1) South of Sassafras St Extension, (2) Northwest corner of Bayfront and State Street, and (3) Southeast corner of Bayfront and Holland Street.

- The Erie - Western PA Port Authority indicated ownerships since: (1) 3/10/2005, (2) 2/18/1994, (3) 3/10/2005.
- Hazardous Materials, UST, environmental violations, dumping, asbestos, radon, lead based paint, are not present within properties indicated to their knowledge.

4.3.8 PADEP File Review

On January 2, 2020 a file review was conducted at PADEP Northwest Regional Office for RST and LRST, EC, WM, Oil & Gas VCP, sites within, or immediately adjacent to, proposed construction activities.

GPU Front Street Sta – (161070-25-16342 (25)) – Storage Tanks. 50,000 gallon (Diesel AST), 700 gallon (Diesel AST), 8,000 gallon (hazardous substance AST), 5,000 gallon (hazardous substance AST), 8,500 gallon (hazardous substance AST), 8,000 gallon (hazardous substance AST) 5,000 gallon (used motor oil AST), 5,000 gallon (used motor oil AST), 14,000 gallon (heating oil UST). All tanks have been removed; contaminated soils were stockpiled and removed.

Bayshore Marine – (81333-25-90509-(25)) – Five (5) 2000 gallon storage tanks. Concrete slurry, July 21, 1992 UST closure agreement with the conclusion BTEX below detection limits. Dredge material used on site 9-29-2011 brick, sand, gravel, and fines. No evidence material was impacted by a regulated substance.

Erie Sand & Gravel – (PADEP 80757-25-09512 (25)) – Storage tanks within the property were removed November 22, 1994. The Erie Bayfront Convention Center is now located on site

Hamot Med Center – (93254-400626 (25)) – Infectious/ chemotherapeutic waste incinerated and removed all fly ash is handled through American waste. (77150 400626 (25)) – 45,000 lbs. a month red bag waste. (80705-25-04648 (25)) – Registered tanks are located on the property.

Donjon Shipbuilding – (523567) – oily wastewaters and process wastewaters 7,000 gal.



Records of waste sent to Everclear or Lakeview Landfill for disposal.

Wayne Street Dump – File Review determined Wayne Street Dump to be outside of project area, property displayed on Geosearch is not located in proper area. Wayne Street Dump coordinates are 42°08'49.0"N 80°04'53.7"W

Soldiers' & Sailors' – (PADEP 5254717-25-90895-(25)) – Underground stage tank of 1000 gallons containing diesel was removed in 1994, minor spill soil near tank was removed, deemed no threat to human health or welfare.

GAF Building Materials – The former GAF Building Materials Manufacturing Corporation (GAF) facility located at 218 West Bayfront Parkway, Erie, Pennsylvania: a brown field site that contains hazardous materials, waste storage, staining, discoloration, etching, stressed vegetation, storage tanks, sumps or clarifiers, and transformers. The site is comprised of "made" land consisting of roofing materials, construction debris and soil fill. Solidified tar boils and roofing materials are present on the embankments that form the shoreline with the Bay. Numerous SVOCs along with arsenic and 1,3,5-trimethylbenzene have been detected in samples of the soil (i.e. fill material) collected throughout the site in concentrations that exceed the respective RNUA MSCs. PCBs were detected sporadically in low concentrations relative to their MSCs.

A risk assessment indicated that, if left unmitigated, unacceptable carcinogenic risks and non-carcinogenic hazards could potentially exist to construction workers, residents, recreational users, and commercial workers.

Various materials were encountered during the remediation that were unsuitable for backfill or that were characterized as waste that required off-site disposal. A total of 1,650 tons of site materials were disposed of off-site as residual waste at Lakeview Landfill. A total of 54 tons of friable and non-friable asbestos containing material (ACM were disposed of at Lake View 1) The GAF Property was remediated between June 2012 and June 2014. The GAF site is under the protection of an Environmental Covenant between the Port Authority of Erie and PADEP.

Proposed work in the vicinity of the Bayfront Parkway Central Corridor Improvement Project will entail what used to be the property's main office, storage building, and storage tanks, soil borings in this area contain:

Boring S-1 (1-3)

Soil Surface (0-2 ft-BGS)

- Benzo(A)anthracene: 140 mg/Kg
- Benzo(A)Pyrene: 91 mg/Kg
- Benzo(B)Fluoranthene 86 mg/Kg
- Dibenz(A,H)Anthracene: 21 mg/Kg



- Indeno(1,2,3-CD)Pyrene: 6.5 mg/Kg

Boring S-3(1-3)

Soil Surface (0-2 ft-BGS)

- Benzo(A)Anthracene: 7.5 mg/Kg
- Benzo(A)Pyrene: 8.4 mg/Kg
- Benzo(B)Fluoranthene 13 mg/Kg
- Dibenz(A,H)Anthracene: 2.3 mg/Kg
- Indeno(1,2,3-CD)Pyrene: 6.5 mg/Kg

MW-1

Groundwater

- Iron: 906 ug/L

Soil surface (> 2 ft BGS)

- Arsenic: 16.2 mg/Kg

MW-7

Soil Surface (0-2 ft-BGS)

- Benzo(A)anthracene: 21 mg/Kg
- Benzo(A)Pyrene: 19 mg/Kg
- Benzo(B)Fluoranthene 27 mg/Kg
- Dibenz(A,H)Anthracene: 3.9 mg/Kg
- Indeno(1,2,3-CD)Pyrene: 11 mg/Kg

Because these borings and monitoring wells are located within, or immediately adjacent to the proposed Sassafras Street / Bayfront Parkway intersection and roadway improvements, these sample results are expected to be representative of soils conditions in proposed work areas. Sampling of the former GAF property occurred only within the GAF property limits, and did not include areas adjacent to the property.

See Figure 8 - GAF Overlay.

4.4 Physical Setting Sources Records

In determining the subject site physical setting, specific federal, state, and local sources were consulted to characterize the project area. Characterizing a site's setting includes identifying local site physiology, topography, hydrology, geology, and soils characterization. Identifying a site's physical setting will enable a reasonable characterization of potential contaminant flow paths both onto and from the site.

Information useful in characterizing the physical setting of the project area included, well water and gas/oil well boring logs, groundwater maps, bedrock/glacial maps, topographic maps, and various published reports.



4.4.1 Site Physiography

Examinations of current topographical maps provided by Geosearch have indicated that the study area falls within the Erie North Quadrangle, United States Geological Survey (U.S.G.S.) Topographic, 7.5 Minute Series. Examination of this map indicates that the subject site elevation ranges between 574 and 636 feet mean sea level (MSL), respectively. A copy of the U.S.G.S. Topographical map is located in **Appendix 1**.

4.4.2 Site Topography

Site topography was determined from the latest available topographic map for the project area. The project area falls within the Erie North Quadrangle of the U.S.G.S. Topographic, 7.5-minute series map. The general topography of the entire subject site and surrounding areas range between 574 and 636 feet mean sea level (msl). A copy of the U.S.G.S. Topographical map is located in **Appendix 1**.

4.4.3 Site Hydrology

The hydrological characteristics of the subject site and vicinity were observed by reviewing the Erie North Quadrangle of the U.S.G.S. Topographic, 7.5-minute series map and by performing a site reconnaissance. FEMA defines the 100-year floodplain as the Lake Erie shoreline, and outside of the subject site limits. The Erie Bayfront Project is located within the Lake Erie Coastal Zone Segment ID 22E, 24E. Observation of the topographical map indicates the terrain slopes towards Lake Erie. A copy of the U.S.G.S. Topographical map is located in **Appendix 1**.

4.4.4 Site Geology

A review of the Pennsylvania Department of Conservation and Natural Resources maps (Map No. 7) – Geologic Map of Pennsylvania and (Map No. 13) – Physiographic Provinces of Pennsylvania indicates that the subject site is located within the Eastern Lake Section of the Central Lowlands Province. Bedrock geology consists of North East Shale from the Devonian geologic age, and Sand of Presque Isle from the Quaternary Geologic Age. Major Land Resource Area (139) Lake Erie Glaciated Plateau, Land resource region: Northeastern Forage and Forest Region. There are no known unique geological features such as carbonate rocks or sinkholes. A copy of the U.S.G.S. Topographical map is located in **Appendix 1**.

4.4.5 Site Soils Characterization

Soils data for the subject site area was obtained from the SSURGO Digital Soil Database by the USDA. The Web Soil Survey is the primary source of information about the soils in Erie County. Soil series are the lowest and most specific category of the classification system. The series is determined by the characteristics of the soil profile including physical, chemical and biological properties of the soil profile.

Soil types identified in the project study area include:

- CsB – Colonie loamy fine sand, 3 to 8 percent slopes
- UbC – Udorthents, sandy, 0 to 15 percent slopes



- Ue – Urban Land
- UrA – Urban Land Red Hook complex, 0 to 3 percent slopes.
- UtB – Urban Land Tyner-Harborcreek complex, 0 to 8 percent slopes

A copy of the Soil Survey is located in **Appendix 4**.

4.5 Site History Review

A site history review was conducted utilizing a number of public and private sources, including aerial photographs (federal, state, local, and private sources), map archives of the Sanborn Insurance Map Co., published directories, atlases, and public library/historical society records. These archives offered insights as to establish past property usage, verify building locations and use, property ownership, tenants, and any commercial/industrial processes, which would be useful in determining the type and quantities of regulated substances used and the extent of possible contamination within the subject site.

4.5.1 Fire & Insurance Map Review

The archive section of the Sanborn Map Company was contacted regarding the availability of historical insurance maps of the project area. Sanborn map coverage was available for the project study area. A copy of the Sanborn Maps is located in **Appendix 6**.

Sanborn Maps were available for the following years: 1888, 1900, 1921, 1950, 1951, 1964, 1965, 1966, 1970.

Sanborn Map Review

Year	Land Use Description
1888	<ul style="list-style-type: none"> • NORTH-RAIL LINES, SEWAGE TREATMENT, COASTAL, MARKETS, INDUSTRIAL, RESIDENTIAL • SOUTH- RESIDENTIAL DWELLINGS, SOLDERS & SAILORS HOME
1900	<ul style="list-style-type: none"> • NORTH-RAIL LINES, SEWAGE TREATMENT, COASTAL, MARKETS, INDUSTRIAL • SOUTH- RESIDENTIAL DWELLINGS, SOLDERS & SAILORS HOME
1921	<ul style="list-style-type: none"> • NORTH- COASTAL, INDUSTRIAL RAIL LINES, TRANSFORMER, ELECTRIC, ERIE LIGHTING CO, HF WATSON CO, AST, ERIE WATER WORKS • SOUTH- RESIDENTIAL DWELLINGS, INDUSTRIAL, SOLDERS & SAILORS HOME NATURAL GAS CO
1950	<ul style="list-style-type: none"> • NORTH- COASTAL, INDUSTRIAL RAIL LINES, TRANSFORMER, ELECTRIC, RUBEROID COMPANY, ERIE WATER WORKS • SOUTH- RESIDENTIAL DWELLINGS, INDUSTRIAL, SOLDERS & SAILORS HOME NATURAL GAS CO
1951	<ul style="list-style-type: none"> • NORTH- COASTAL, INDUSTRIAL RAIL LINES, TRANSFORMER, ELECTRIC, RUBEROID COMPANY • SOUTH- RESIDENTIAL DWELLINGS, INDUSTRIAL, SOLDERS & SAILORS HOME NATURAL GAS CO
1964	<ul style="list-style-type: none"> • NORTH-RAIL LINES, SEWAGE TREATMENT, COASTAL • SOUTH- RESIDENTIAL DWELLINGS, NATURAL GAS CO
1965	<ul style="list-style-type: none"> • NORTH-RAIL LINES, SEWAGE TREATMENT, COASTAL • SOUTH- RESIDENTIAL DWELLINGS, SOLDERS & SAILORS HOME
1966	<ul style="list-style-type: none"> • NORTH-RAIL LINES, SEWAGE TREATMENT, • SOUTH- RESIDENTIAL DWELLINGS, SOLDERS & SAILORS HOME STORAGE TANK FACULTIES.
1970	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, MANUFACTURING, COASTAL, RAIL LINES, HARBORS, SAND GRAVEL /CONCRETE MIX, RUBEROID COMPANY • SOUTH – RESIDENTIAL DWELLINGS, CHURCH’S, INDUSTRIAL, HOSPITAL, NATURAL GAS CO

4.5.2 Aerial Photograph Review

Specific years and areas of available coverage are as follows:



GeoSearch: 1939, 1958, 1967, 1969, 1975, 1977, 1981, 1993, 2002, 2005, 2010, and 2017. GeoSearch photographs are generally at a scale of 1"=500', depending upon the photograph. Aerial photographs were purchased through GeoSearch for the subject site to identify structures and define property usage for parcels within and adjacent to the project study area. Aerial maps are located in **Appendix 6**.

Specific years and areas of available coverage are as follows:

Year	Land Use Description
1939	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, LESS COASTAL FILL, MORE RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS • WEST- RESIDENTIAL DWELLINGS, PARKS
1950	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, LESS COASTAL, MORE RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS • WEST- RESIDENTIAL DWELLINGS, PARKS
1956	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, LESS COASTAL FILL, MORE RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS • WEST- RESIDENTIAL DWELLINGS, PARKS
1960	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, LESS COASTAL FILL, MORE RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS • WEST- RESIDENTIAL DWELLINGS, PARKS
1969	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS • WEST- RESIDENTIAL DWELLINGS, PARKS
1975	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, MORE RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS • WEST- RESIDENTIAL DWELLINGS, PARKS
1983	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, MORE RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, • WEST- RESIDENTIAL DWELLINGS, PARKS
1987	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, SOME FORESTED • WEST- RESIDENTIAL DWELLINGS, PARKS
1993	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, • WEST- RESIDENTIAL DWELLINGS, PARKS
2004	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF FACILITY IN USE, FRONT STREET • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, SOME FORESTED • WEST- RESIDENTIAL DWELLINGS, PARKS
2005	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF FACILITY IN USE • SOUTH- RESIDENTIAL DWELLINGS • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, SOME FORESTED • WEST- RESIDENTIAL DWELLINGS, PARKS
2008	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF IN OPERATION • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, SOME FORESTED • WEST- RESIDENTIAL DWELLINGS, PARKS



2010	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF STARING TO BE REMOVED • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, SOME FORESTED • WEST- RESIDENTIAL DWELLINGS, PARKS
2013	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF REMOVED • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, SOME FORESTED • WEST- RESIDENTIAL DWELLINGS, PARKS
2015	<ul style="list-style-type: none"> • NORTH- INDUSTRIAL, COASTAL, RAILROAD, GAF REMOVED • SOUTH- RESIDENTIAL DWELLINGS • EAST- INDUSTRIAL, RESIDENTIAL DWELLINGS, SOME FORESTED • WEST- RESIDENTIAL DWELLINGS, PARKS

4.5.3 City Directory Review

City directories are useful in determining specific property usage based upon descriptions of industrial, commercial, and residential establishments who occupied a specific parcel/street address. These directories are extremely important in determining operations of adjacent property usage that may have the potential to adversely affect the environmental quality of the project study area. In the absence of other operations specific records, city directories can be an excellent source for this information. City directories were reviewed for past land uses of the project area. City directories, obtained through GeoSearch were review for the following years: 1977, 1982, 1987, 1992, 1995, 2000, 2005, 2010 and 2014. A copy of the directory listings is located in **Appendix 6**.

4.6 Interviews with Property Owners and Tenants

Selected project study area property owners were contacted regarding review of any available and/or archived information on potential site contamination, hazardous materials, or other recognized environmental conditions regarding current and historical activities on their subject properties. A questionnaire of environmental conditions was provided as a reference.

Letters were sent to the following Property Owners and Regional/Municipal Officials

Property Owners:

- PA Department of Military and Veterans Affairs
- Western Pennsylvania Port Authority

Regional/Municipal Officials:

- Please see received responses in **Appendix 5**.
- City of Erie Fire Department
- City of Erie Police Department
- Erie County Hazardous Materials Response Team
- City of Erie Planning Commission
- Erie County Planning Commission



Section 5.0 Field Reconnaissance

On February 5th 2020, ms consultants, inc. personnel performed a walkover survey of the subject site and adjacent properties. The site reconnaissance survey included:

- Verification of property boundaries and topographic conditions on and adjacent to the subject site.
- Identification of areas for further investigation for present visible signs of past site activities.
- Identification of potential sources of contamination impacting the subject site.

The subject site reconnaissance survey is documented through survey narrative, photographs, and various sketches. Photographs of the project areas were taken and are located in **Appendix 7**.

5.1 Current Land Use

5.1.1. Subject Site

The subject site for this Phase I ESA consists along the Bayfront Parkway (SR 4034) in the City of Erie, Erie County Pennsylvania. The subject site also includes The Bayfront Parkway intersections of Sassafras Street Extension, State Street, Holland Street. As part of the Central Corridor Improvements, the existing railroad track located between Sassafras Street Extension and Holland Street will be removed to accommodate the proposed improvements. In order to maintain their operations, CSX is proposing to add additional track east of Holland Street and adjacent to the Pennsylvania Soldiers' and Sailors' Home and the Veterans Memorial Cemetery. Based upon the City of Erie Zoning, the land use of the project area is primarily zoned Waterfront Commercial.

5.1.2 Transformers

- 3-pole mounted Transformer Front Street facing east
- 3-pole mounted Transformer Holland Street facing east
- 3-pole mounted Transformer East Front Street facing south
- 3-pole mounted Transformer East Front Street facing south
- 1-pole mounted Transformer East Front Street facing north
- 1-pole mounted Transformer Erie Bayfront facing north
- 1-pole mounted Transformer Wallace Street facing east
- 1-pole mounted Transformer East 3rd Street facing north

5.1.3 Distressed Vegetation

Slightly distressed vegetation was observed during the walkover near the railroad tracks south of Erie Bayfront.

5.1.4 Adjacent Properties

The adjacent properties are utilized for commercial and residential use. A listing of each property located adjacent to the project study area is located in **Appendix 2**.



5.1.5 Electrical Station

Electrical Station On East Front Street facing south. Pennsylvania Electric Co

5.1.6 Waste Disposal Practices

During the site reconnaissance, GAF, Front Street, Don Jon Ship Building, Erie Waste Water Treatment Plant, and Erie Hospital were noted to be adjacent to the project area.

5.2 Site Physical Features

During the site visit site topography, geology, water quality, soil data, and hydrology appear to concur with project area physical features as ascertained from Section 4.4 of this report.

Section 6.0 Investigation Results

Summary of Findings

ms consultants, inc. has been tasked by PennDOT District 1-0 to perform a Phase I Environmental Site Assessment (ESA) for Bayfront Parkway Central Corridor Improvement Project (project). The Erie Central Bayfront Area is being transformed from what once was a heavy industrial area to an area of recreation, retail and residential dwelling. Some of this development has already been constructed, while other portions are anticipated to be constructed in the very near future.

- Bayfront Parkway Central Corridor Improvement Project is intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. The project must also enhance multi-modal transportation connections between the Erie Downtown community (businesses, neighborhoods, etc) with the waterfront property. To accomplish these goals, alternatives that are being considered include:
- Grade separated intersection between State Street and Bayfront Parkway. This will reduce congestion, improve mobility, and significantly improve safety while at the same time enhancing multi-modal connections between the community with the waterfront.
- Roundabouts along the Bayfront Parkway at Sassafras Street Extension and Holland Street. These improvements are also aimed to reduce congestion and improve safety but increasing intersection capacity while simultaneously calming/slowing traffic.
- Shared Use trails. Additional connections between neighborhoods, downtown, and the waterfront aim to improve mobility and integrate the Bayfront Parkway with downtown and the adjacent neighborhoods.

As part of the Central Corridor Improvements, the existing railroad track located between Sassafras Street Extension and Holland Street will be removed to accommodate the proposed improvements. In order to maintain their operations, CSX is proposing to add additional track east of Holland Street and adjacent to the Pennsylvania Soldiers' and Sailors' Home and the Veterans Memorial Cemetery. Currently an at-grade railroad crossing exists between the Soldiers' and Sailors' Home and the Veterans Memorial Cemetery. For safety and operational concerns, this crossing will be eliminated and a multi-modal bridge over the proposed CSX



tracks will be constructed, located west of the existing crossing.

The subject site for this Phase I ESA consists of approximately 1.75 miles Bayfront Parkway (SR 4034) In Erie, Pennsylvania. The subject site also includes The Bayfront Parkway intersections of Sassafras Street Extension, State Street, Holland Street in the City of Erie, Erie County Pennsylvania. Based upon the City of Erie Zoning, the land use of the project area is primarily zoned Waterfront Commercial.

Purpose

The purpose of the Phase I ESA is to identify existing and potential releases of hazardous substances, inquire into the previous ownership and uses, and identify other environmental concerns on the properties that may be affected by the project. The information gathered from this Phase I ESA will be used in the final design analysis for the project and to identify potential concerns that may be necessary to address when the final design is completed. It is anticipated that additional environmental assessments will be performed during the final design stage of the project in order to provide more detailed recommendations for the identified sites of potential concern.

The Phase I ESA was conducted in conformance with the scope and limitations of PennDOT Publication 281, The Transportation Project Development Process, Waste Site Evaluation Procedures Handbook and ASTM E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. This was accomplished by:

- Performing an environmental database search of the study area and surrounding properties to identify sites that may pose environmental hazards for the project.
- Performing a site reconnaissance by driving the study area and performing site walks (where necessary) in an effort to identify areas that may pose environmental hazards for the project and to identify the locations of existing underground storage tanks (USTs).
- Reviewing historic maps and aerial photographs in an effort to determine the past use of properties within and surrounding the study area.
- Conducting file reviews at the Pennsylvania Department of Environmental Protection (PADEP) Northwest Regional Office to obtain further information for the sites of potential environmental concern identified on environmental databases.
- Contacting local representatives such as: City of Erie Planning, Erie County Planning, City of Erie Police Department, City of Erie Fire Department, Erie County Hazardous Materials Response Team in order to obtain information on potential sites of concern within the study area.
- Questioning adjacent property owners to obtain additional information.
- Evaluating the information obtained for each of the identified sites of potential environmental concern to determine if further investigation is warranted based on the three project alternatives provided by ms consultants, inc.



Findings

Based on the Bayfront Parkway Central Corridor Improvement Project design, the sources reviewed and contacted for this Phase I ESA, and observations made during the site visit, 42 sites of potential concern were identified for the project.

Number	Name	Facility Type
1	DONJON SHIPBUILDING & REPAIR LLC/ERIE	AIRS, AIRSAFS, BRS, ECHOR03, ERNSPA (2), FRSPA (5), ICIS, ICISNPDES, NPDESR03 RCRAGR03
2	GAF BLDG MATERIALS	AIRS (2) AUL, ECHOR03, ERNSPA(2), FRSPA (3), RCRANGR03, SEMSARCH, SPILLS(3), TRI, VCP
3	BETWEEN THE SHERATON DOCKS AND PRESQUE ISLE YACHT CLUB DOCKS	ERNSPA (2)
4	EAST 5TH ST AND WAYNE ST, ERIE, PA 16512	ERNSPA
5	HAMPTON INN -HARBOR PLACE	ECHOR03, FRSPA, LRST,RST
6	BAYSHORE MARINE	RST
7	CSX BAYFRONT SITE FMR	AUL, VCP
8	WAYNE STREET DUMP	MWO, SEMSARCH, SWF
9	PHMC FLAGSHIP NIAGARA	ECHOR03, FRSPA, RCRAGR03
10	ERIE SAND & GRAVEL CO 1	UIC
11	HAMOT MED CTR	RST
12	ERIE CITY WATER AUTH	ECHOR03, ERNSPA, FRSPA (14), ICIS,ICISNPDES, NPDESR03, RCRAGR03
13	MAYER BROTHERS CONSTRUCTION INC.	FRSPA
14	PENELEC/FRONT ST	AIRS,ECHOR03, FRSPA(3), PADS, RCRANGR03, SEMSARCH,VCP
15	UNITED ERIE FACILITY, ERIE, PA	ERNSPA
16	UPMC HAMOT/ERIE	AIRS, ECHOR03, FRSPA (3), ICIS, MWO,RCRAGR03, RST, SPILLS, SWF
17	HEALTHSOUTH GREAT LAKES REHAB HOSP	RST
18	NIAGARA MACH	RCRANGR03
19	PA SOLDIERS & SAILORS HOME	LRST, RST
20	ERIE INTL MARINE TERM	RST
21	ERIE CITY, SOMMERHEIN DR	RST
22	NFG ERIE SVC CTR	LRST, RCRAGR03, RST,VCP(2)
23	MEDI-CENTER HOSPITAL	RCRANGR03
24	FAMILY DOLLAR STORE NO 3779	RCRAGR03
25	ERIE WWTOUCHING/ ADJACENT	LRST,MWO, RST, RST(2)
26	SIMON BLDG PROD	LRST, RST
27	MCALLISTER MARINA	LRST,RST (2)
28	ATLANTIC 0363 8756 CO OP 4047	LRST, RST
29	ERIE SCH DIST BUS GARAGE	LRST, RST
30	GERTRUDE A BARBER DR CTR	RST
31	FLANAGANS SVC	RST
32	7TH & EAST STS, ERIE, PA	HISTOUCHING/ ADJACENTST
33	ERIE SPEED CHECK	LRST, VCP
34	ERIE COKE	RCRASUBC, RCRAT, SEMSARCH
35	NORTH CREEK ROAD LANDFILL #70	SEMSARCH
36	KWIK FILL M 8	LRST
37	EAST AVENUE SPEED CHECK	LRST
38	HOLIDAY MART II	LRST



39	ERIE CITY IRON WORKS	VCP
40	AMER METER	RCRASUBC
41	ACCU RIDE ERIE LP	RCRAC
42	ERIE RESISTOR SITE	SHWS

Local Regulatory Records Review

The objective of the local public record search is to solicit all of the available information relative to the subject properties and adjacent parcels. The following local agencies were contacted:

- City of Erie Fire Department
- City of Erie Police Department
- Erie County Hazardous Materials Response Team
- City of Erie Planning Commission
- Erie County Planning Commission
- PA Department of Military and Veterans Affairs
- Western Pennsylvania Port Authority
- PADEP File Review

City of Erie Fire Department

A questionnaire was sent to City of Erie Fire Department on December 3, 2019 regarding spills, accidents, hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. At the time of writing this report, this agency has not responded to the request. If the information received changes the findings and conclusions of this report, an addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

City of Erie Police Department

A questionnaire was sent to City of Erie Police Department on December 3, 2019 regarding spills, accidents, involving hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. At the time of writing this report, this agency has not responded to the request. If the information received changes the findings and conclusions of this report, an addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

Erie County Hazardous Materials Response Team

A questionnaire was sent to City of Erie Police Department on December 3, 2019 regarding spills, accidents, involving hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. At the time of writing this report, this agency has not responded to the request. A copy of the request letter is located in **Appendix 5**.



City of Erie Planning Commission

A questionnaire was sent to City of Erie Planning Commission on December 3, 2019 regarding spills, accidents, involving hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. At the time of writing, this agency has not responded to the request. If the information received changes the findings and conclusions of this report, an addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

Erie County Planning Commission

A questionnaire was sent to Erie County Planning Commission on December 3, 2019 regarding spills, accidents, involving hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. The Erie County Planning Commission forwarded this request to the County of Erie Department of Health. They indicated that they did not locate any environmental problems regarding the requested area, but did indicate illegal dumping of garbage, and household trash from Holland Street to approximately Ash Street. If the information received changes the findings and conclusions of this report, an addendum to this report will be sent to the client. A copy of the request letter is located in **Appendix 5**.

PA Department of Military and Veterans Affairs

A questionnaire was sent to PA Department of Military and Veterans Affairs on December 3, 2019 regarding spills, accidents, involving hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. The PA Department of Military and Veterans Affairs responded in regards to the in PA Soldiers & Sailors Home on 560 E 3rd St Erie, PA 16512. A copy of the request letter is located in **Appendix 5**. PA Department of Military and Veterans Affairs response indicated:

- Commonwealth of Pennsylvania has owned the property since 1885.
- A 2000-gallon Underground Storage Tank (UST) was removed no others are on property.
- The property contains retention basins behind maintenance buildings.
- The property experiences the illegal dumping of tires which is cleaned once a month.
- The property contains switchgear transformers, with Penelec as the provider.
- Asbestos at the nursing care building, personal Care facility, was removed during construction.
- Lead based paint was found in the PCU buildings but was encapsulated.

Erie - Western PA Port Authority

A questionnaire was sent to the Erie - Western PA Port Authority on December 3, 2019 regarding spills, accidents, involving hazardous or regulated materials, inspection, installation or removal of underground storage tanks (USTs), and any complaints, files or releases of hazardous or regulated substances. The Erie - Western PA Port Authority responded in



regards to (1) South of Sassafras St Extension, (2) Northwest corner of Bayfront and State Street, and (3) Southeast corner of Bayfront and Holland Street.

- The Erie - Western PA Port Authority indicated the priorities ownerships since: (1) 3/10/2005, (2) 2/18/1994, (3) 3/10/2005.
- Hazardous Materials, UST, environmental violations, dumping, asbestos, radon, lead based paint, are not present within properties indicated to their knowledge.

PADEP File Review

On January 2, 2020 a file review was conducted at PADEP Northwest Regional Office for RST and LRST, EC, WM, Oil & Gas VCP, sites within, or immediately adjacent to, proposed earthwork activities. File review findings are summarized below:

- *GPU Front Street Sta-* Contained nine (9) AST and one (1) UST, all tanks have been removed, and contaminated soils were stockpiled and removed.
- *Bayshore Marine - contained* Five (5) 2000-gallon tanks Concrete slurry, July 21 1992 UST closure agreement with the conclusion BTEX below detection limits. Dredge material was used on site. No evidence material was impacted by a regulated substance.
- *Erie Sand & Gravel-* Storage tanks within the property were removed November 22 1994. The Erie Bayfront Convention Center is now located on site
- *Hamot Med Center-* Infectious/ chemotherapeutic waste incinerated and removed all fly ash is handled through American Waste. Registered tanks are located on the property.
- *Donjon Shipbuilding-* oily wastewaters and process wastewaters 7,000 gal. Records of waste sent to Everclear or Lakeview Landfill for disposal.
- *Wayne Street Dump-* File Review determined Wayne Street Dump to be outside of Project Area, property displayed on Geosearch is not located in proper area. Wayne Street Dump coordinates are 42°08'49.0"N 80°04'53.7"W
- *Soldiers & Sailors-* underground stage tank of 1000 gallons containing diesel was removed in 1994, minor spill soil near tank was removed, deemed no threat to human health or welfare.
- *GAF Building Materials-* The former GAF Building Materials Manufacturing Corporation (GAF) facility located at 218 West Bayfront Parkway, Erie, Pennsylvania: a brown field site, hazardous materials, waste storage, staining, discoloration, etching, stressed vegetation, storage tanks, sumps or clarifiers, and transformers. The site is comprised of "made" land consisting of roofing materials, construction debris and soil fill. Solidified tar boils and roofing materials are present on the embankments that form the shoreline with the Bay. Numerous SVOCs along with arsenic and 1,3,5-trimethylbenzene have been detected in samples of the soil (i.e. fill material) collected throughout the site in concentrations that exceed the respective RNUA MSCs. PCBs were detected sporadically in low concentrations relative to their MSCs.



A risk assessment indicated that, if left unmitigated, unacceptable carcinogenic risks and non-carcinogenic hazards could potentially exist to construction workers, residents, recreational users, and commercial workers.

Various materials were encountered during the remediation that were unsuitable for backfill or that were characterized as waste that required off-site disposal. A total of 1,650 tons of site materials were disposed of off-site as residual waste at Lakeview Landfill. A total of 54 tons of friable and non-friable asbestos containing material (Asbestos containing materials were disposed of at Lake View 1).

The GAF Property was remediated between June 2012 and June 2014. The GAF site is under the protection of an Environmental Covenant between the Erie - Western PA Port Authority and PADEP.

Section 7.0 Recommendations

ms consultants, inc. personnel conducted a Phase I Environmental Site Assessment to evaluate and screen the proposed subject site to identify areas, which by virtue of past or present land use, visual evidence, or proximity to areas known or suspected to be contaminated, or that may reasonably be presumed to be contaminated by hazardous substances in accordance with PennDOT Publication 281 Waste Site Evaluation Procedures Handbook and ASTM E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

7.1 General Recommendations

1. No further action is recommended at this time for 41 of the 42 sites of potential concern with the understanding that little to no intrusive activities will be conducted. While the majority of the proposed improvements located within the former GAF site are located on fill, some excavation of potentially contaminated soil and/or sediment may be encountered during construction of proposed drainage pipes/inlets, trenches for utility relocations, and sign/light pole foundations. It is anticipated these activities will have a limited footprint and specifications will be prepared and included in the contract documents to provide the contractor with specific instructions on the testing, handling, stockpiling, and proper disposal of contaminated soils, if encountered. Site specific recommendations are detailed in **Section 7.3**.
2. An Environmental Covenant exists for the former GAF site that requires prior PADEP and Holder notification of any planned changes in land use or ownership for any portion of the former GAF site.
3. After the design plans for the project are completed, a Waste Management Plan (WMP), and a Site Specific Health and Safety Plan (SSHASP) should be prepared to address soil, sediment, groundwater management, environmental health, and worker safety during all project construction activities. The WMP should address all known or suspected contaminants that may be associated with the identified sites of potential concern.



4. Within CSX Railroad, and former GAF property any earthwork activities will be required to be conducted in accordance with their Environmental Covenant.

7.2 No Further Action Recommended Sites

Based on the available information reviewed for this study, no further evaluation of the Sheraton Docks and Presque Isle Yacht Club docks, East 5th St and Wayne St, Erie, PA 16512, Hampton Inn -Harbor Place, Bayshore Marine, Wayne Street Dump, PHMC Flagship Niagara, Erie Sand & Gravel Co 1, Hamot Med CTR, Erie City Water Auth, Mayer Brothers Construction inc. , Penelec/Front St, United Erie Facility, Erie, Pa , UPMC Hamot/Erie, Healthsouth Great Lakes Rehab Hosp, Niagara Mach, Pa Soldiers & Sailors Home, Erie Intl Marine Term, Erie City, Sommerhein Dr, Nfg Erie Svc Ctr, Medi-Center Hospital, Family Dollar Store No 3779, Erie WW, Simon Bldg Prod, Mcallister Marina, Atlantic 0363 8756 Co Op 4047, Erie Sch Dist Bus Garage, Gertrude A Barber Dr Ctr, Flanagans Svc, 7th & East Sts, Erie, Pa, Erie Speed Check, Erie Coke, North Creek Road Landfill #70, Kwik Fill M 8, East Avenue Speed Check, Holiday Mart ii, Erie City Iron Works, Amer Meter, Accu Ride Erie LP, Erie Resistor Site, GAF, Donjon Shipbuilding & Repair LLC/Erie.If the project design changes, the need for further assessment of these sites should be re-evaluated. During final design and prior to construction activities, the status, extent and condition of potential contaminated areas should be reviewed relative to the proposed roadway plans and construction activities.

7.3 Further Action Recommended Sites

The CSX railroad crossings and the abandoned railroad tracks may have been impacted by historic spills, leaks from cars, or maintenance activities. To evaluate these track areas A.G.E.S., Inc. will complete a Phase II ESA which will consist of obtaining shallow soil samples along the track area. A.G.E.S., Inc. will obtain twelve (12) representative samples adjacent to the railroad tracks in areas disturbed by the proposed construction activities. Sampling will be conducted using hand held mechanical equipment to a maximum sampling depth of 3 feet below the surface. Environmental samples will be collected from composited samples at each location. Samples will be screened for Volatile Organic Compounds (VOCs) using a photo-ionization detector (PID) prior to sample collection. If there are no elevated PID readings, the sample will be collected from the entire sampling interval. If there are PID readings, the sample will be taken from the location of the highest PID reading.

A.G.E.S., Inc. will develop a Site Specific Health and Safety Plan (SSHASP) for submittal prior to conducting the field work. The Health and Safety Plan will meet the requirements of 29 CFR 1910.120.

A Field Sampling Plan (FSP) will be prepared to indicate the sampling protocols and sample locations. A figure indicating the proposed sampling locations will be submitted to PennDOT for review. The field investigation will consist of twelve (12) sampling locations adjacent to the railroad tracks (maximum depth 3 feet below the elevation of the existing surface). The sample interval will correspond with the anticipated construction excavation depth interval.



Section 8.0 Glossary

Act 2- The Land Recycling and Environmental Remediation Standards Act, often referred to as Act 2, and established a framework for developing remediation standards applicable to all releases of regulated substances. It was adopted July 18, 1995.

Aboveground Storage Tank- Storage tanks with capacity in excess of 250 gallons, in which 90% or more of the volume is stored above the ground surface.

Air Emissions- Physical, chemical or biological substance emitted into the ambient air that contains air pollutants as defined in Section 302 of the Clean Air Act.

Appropriate Inquiry- Inquiry into previous ownership and uses of a property, consistent with good commercial practice, in an effort to minimize liability. In court, a defendant must prove that steps were taken to be released from liability of a contaminated site under SARA.

Asbestos- Six naturally occurring fibrous minerals found in certain rock formations characterized by very small, fibrous shapes that can cause serious health problems when inhaled. Some of the minerals have been used in building and insulation products because of their strong incombustible properties.

Asbestos Containing Material (ACM)-Any material containing one percent asbestos or more.

Brownfields-Abandoned, idled, or under-used commercial, industrial or institutional properties where redevelopment and reuse are complicated by light to moderate contamination from hazardous substances.

Clean Fill-Uncontaminated, nonwater-soluble, nondecomposable inert solid material, including soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such.

Comprehensive Environmental Response and Liability Information System (CERCLIS)- Compilation of sites EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Action (CERCLA).

Contaminated Material- Solid, liquid or gaseous material that has the potential to threaten public health and/or the environment, and that may require special handling. Potentially contaminated material requires segregation from other material and must be stored in a safe, secure manner so that testing can be performed to determine type of contaminants that may be present. Contaminated material handling may require implementation of personnel protective measures involving respiratory and skin protection.



Decontamination- The removal of potential contaminants from employees and equipment to the extent necessary to preclude adverse health effects and the transfer of contaminants to clean areas.

Department- The Pennsylvania Department of Transportation, usually referring to the Bureau of Maintenance and Operations, Maintenance Technical Leadership Division, Strategic Environmental Management Office (SEMP Section).

Drum- Container typically designed to hold 55 gallons of liquid material, used to store solid and liquid hazardous substances, hazardous waste, or other environmentally sensitive materials.

Due Diligence- Efforts taken by the potential future owner of a property to determine the possible environmental liability of a site. In court, a defendant must document these efforts to be released from liability under SARA.

Earth Disturbance- Any construction or other activity which disturbs the surface of the land including, but not limited to, excavations, embankments, depositing or storing soil, rock or earth.

Environmental Covenant- A document that restricts land use in order to support an environmental response project (usually an environmental remediation, or closure of a waste management site). Environmental covenants must be registered with the Pennsylvania Department of Environmental Protection and recording in the county. For further information see the UECA statute, 27 Pa. C.S. §§ 6501-6517, and the UECA regulations, 25 Pa. Code, Chapter 253.

Environmentally Sensitive Material- Any waste product or other material with potential to cause harm to the environment or human health in the event that a release of such material occurred.

Environmental Protection Agency (EPA)- Federal agency responsible for enforcing environmental regulations such as RCRA, CERCLA, Clean Air Act, Clean Water Act.

Experienced Personnel- A person possessing sufficient training and experience necessary to prepare and conduct the activity required to be performed, and having the ability to develop sound opinions and conclusions regarding recognized environmental conditions in connection with the property in question.

Facility Index System (FINDS)- List of facilities that generate regulated quantities of waste compiled from the EPA's various regulatory programs.

Feasibility Study- Evaluation of potential remedial alternatives for their ability to meet technical, public health, environmental and financial requirements.

Friable Asbestos Containing Material- Material that contains greater than one percent asbestos by weight, and can easily be crumbled or reduced to powder by crushing with hand pressure.



Greenfields -Land which historically has been prime farmland, open-space, and natural areas that do not have ready access to water, sewer, and infrastructure.

Groundwater- Naturally occurring water that moves through the earth's crust, usually at a depth of several feet to several hundred feet below the earth's surface.

Geophysical Techniques- Methods such as ground penetrating radar, electromagnetics, magnetometry, electrical resistivity and seismic refraction used to identify buried metal objects (such as tanks, pipelines or drums) and contaminant plumes.

HASP- The Health and Safety Plan (HASP) establishes the procedures for identifying or minimizing potential exposure to hazards.

Hazardous Substance- Substance defined pursuant to CERCLA.

Hazardous Waste- Waste identified by characteristics, source or specific substance as found in 25 PA Code Chapter 75, Subchapter D, and the Code of Federal Regulations (CFR) Title 40, Chapter 261. A hazardous waste may: 1) cause or significantly contribute to an increase in mortality or morbidity in either an individual or the total population; and 2) pose a substantial hazard to human health or the environment when improperly treated, stored, transported, disposed or otherwise mismanaged.

Historic Fill- As defined in DEP's Management of Fill Policy, August 7, 2010, material used to bring an area to grade prior to 1988 that is a conglomeration of soil and residuals, such ashes from the residential burning of wood and coal, incinerator ash, coal ash, slag, dredged material and construction and demolition waste.

Indemnification- Written promise that a party will hold another party harmless for its liability to a third party; frequently used when a problem is suspected but not confirmed.

Invasive Investigation- Techniques-Techniques for characterizing nature and degree of contamination which involve altering the physical condition or appearance of a site; these include soil gas analyses, soil borings, monitor well drilling, test pitting and excavation.

Land Recycling and Environmental Remediation Standards Act- Often referred to as Act 2, this act established a framework for developing remediation standards applicable to all releases of regulated substances. It was adopted July 18, 1995.

Manifest- Specific shipping document used by the generator of hazardous wastes to track waste from generation source to treatment or disposal site ("cradle to grave" tracking).



Material Safety Data Sheet (MSDS) - Written material regarding a specific hazardous chemical including information such as hazards, personnel protective equipment and emergency procedures - required by Right-To-Know regulations.

National Priority List (NPL)-EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program.

National Spill Report- Compilation of reported releases of oil and hazardous substances. Contains information from spill records made to Federal authorities including EPA, US Coast Guard, National Response Center and Federal Department of Transportation.

Natural Resources- Land, fish, wildlife, drinking water supplies and other assets belonging to, managed by or otherwise controlled by the Federal, state or local government.

Occupational Safety and Health Administration (OSHA)- Federal agency responsible for enforcing worker health and safety regulations.

Pennsylvania Department of Environmental Protection PADEP- State regulatory agency responsible for enforcing environmental regulations.

Pennsylvania Priority List (PAPL)- A priority list of sites with toxic releases or threatened toxic releases. PAPL is used to identify sites which need further study and/or remedial response decisions to address threats to the public health, safety or the environment.

Potentially Responsible Party- Party who may be liable for remediation costs, damages to natural resources and/or costs for health assessments.

Potential Waste Site- Property used for, but not limited to: gas stations, dry cleaners, pesticide application companies, paint companies, machine shops, auto repair/maintenance facilities, chemical manufacturing facilities, dump sites, landfills, waste recycling and processing facilities (including land application), transportation related operations (railroad, truck terminals, etc.), junk/salvage yards, metal plating facilities, printing facilities, photo processing facilities, analytical laboratories, nursery/greenhouse operations, electronics facilities, manufacturing facilities, and properties that border such operations.

Practically Reviewable Records-Records/files which are readily available and pertinent to the investigation at hand.

Qualified Consultant-Consultant that has proven qualifications, necessary expertise and adequate personnel to effectively perform required work.

Regulated Fill- Soil, rock, stone, dredged material, used asphalt, historic fill, and brick, block or concrete from construction and demolition activities that is separate from other waste and



recognizable as such, that has been affected by a spill or release of a regulated substance, such as the concentrations of regulated substances exceed the values in Table FP-1a and b (a.k.a. the Clean Fill standards). Note: DEP's position on its written guidance is that Historic Fill may **not** be considered Clean Fill, even if contaminant levels do not exceed any Table FP-1a and b values.

Remediation- Cleanup of environmentally sensitive material. Costs for studies, relocation, management, overhead and other expenses must also be considered in the remediation process.

Residual Waste- Non-hazardous garbage, refuse or other discarded material or waste including, solid, liquid, semi-solid or contained gaseous materials resulting from industrial, mining and/or agricultural operations and sludge from an industrial, mining or agricultural water supply treatment facility, wastewater treatment facility or air pollution control facility.

Resource Conservation and Recovery Act (RCRA) Facilities Database- The EPA's compilation of reporting facilities that generate, store, treat, transport or dispose of hazardous waste.

Right-To-Know Regulations- A variety of Federal and State regulations that provide chemical hazard information to workers.

Storage Tank and Spill Prevention Act (U.S.)- Regulates activities pertaining to owners of certain classes of tanks, including used motor oil, waste oil and hazardous waste, and owners of aboveground storage tanks. Act 34, adopted July 9, 1996, amended definitions of certain types of storage tanks/storage facilities.

Storage Tank & Spill Prevention Act- Also known as Act 32, it requires the Department of Environmental Protection to adopt regulations which establish release confirmation, release reporting, and corrective action requirements for owners and operators of registered aboveground and underground storage tanks and other responsible parties.

Superfund Site- Superfund is the commonly used name for CERCLA. It ensures site cleanup by responsible parties or through government funding. High priority sites designated by the EPA for remediation under CERCLA are known as Superfund sites.

Synthetic Precipitation Leaching Procedure (SPLP) -Method 1312 is designed to determine the mobility of both organic and inorganic analytes present in liquids, soils, and wastes. It is designed to simulate normal atmospheric leaching conditions, as opposed to the TCLP. The TCLP analysis was designed to characterize landfill leachate toxicity, which is generated under anaerobic conditions.

TEA-21- Transportation Equity Act for the 21st Century

Toxicity Characteristic Leaching Procedure (TCLP)- Method 1311 is designed to determine the mobility of both organic and inorganic analytes present in liquids, soils, and wastes. It is designed



to simulate leaching conditions in landfills. It is the approved regulatory analytical method for determining whether a material is hazardous, for Characteristic Toxicity.

Underground Storage Tank- Any tank, including underground piping connected to the tank, which was used to store hazardous substances, including petroleum. Ten percent or more of the tank volume, including piping, must be located beneath the ground surface.

Vadose Zone- The unsaturated soil zone above the water table.

Volatile Organic Vapors- Vapors from substances containing carbon, hydrogen and oxygen atoms, characterized by relatively low vapor pressures at ambient air temperature.

Waste Site- Property, including structures on a property, which has been impacted by hazardous or environmentally sensitive materials.

Water Table- The surface of groundwater at which the water pressure equals atmospheric pressure.

Acronyms/Abbreviations

ACM	Asbestos Containing Material
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
BTEX	Benzene, Toluene, Ethyl benzene, Xylene (Gasoline compounds)
CEE	Categorical Exclusion Evaluation
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Index System
CFR	Code of Federal Register
E & E	Engineering and Environmental
EA	Environmental Assessment
EIS	Environmental Impact Statement
EDD	Environmental Due Diligence
ESA	Environmental Site Assessment
FHWA	Federal Highway Administration
FINDS	Facility Index System
FSP	Field Sampling Plan
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
HSCA	Hazardous Sites Cleanup Act
LR&WMP	(Pennsylvania Department of Environmental Protection) Land Recycling and Waste Management Program



NEPA	National Environmental Policy Act
NESHAP	National Emission Standard for Hazardous Air Pollutants
NPL	National Priorities List
OSHA	Occupational Safety and Health Administration
DEP	Department of Environmental Protection
PCBs	Polychlorinated Biphenyls
PennDOT	Pennsylvania Department of Transportation
PS&E	Plans, Specification and Estimate
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
ROW	Right-of-Way
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Act: A Legacy for Users
SARA	Superfund Amendments and Reauthorization Act
SEMP	Strategic Environmental Management Program
SWMA	Solid Waste Management Act
TEA-21	Transportation Equity Act for the 21st Century
TCLP	Toxicity Characteristic Leaching Procedure
TOX	Total Organic Halogens
TSD	Treatment, Storage and Disposal
UECA	Uniform Environmental Covenants Act
US EPA	United States Environmental Protection Agency (also, EPA)
US DOT	United States Department of Transportation
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WMP	Waste Management Plan
WQMP	Pennsylvania Department of Environmental Protection Water Quality Management Program



APPENDIX 1

General Mapping

Bayfront Parkway Central Corridor Improvement Project

PennDOT District 1-0

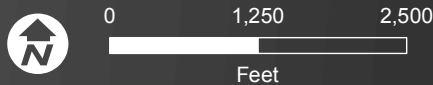
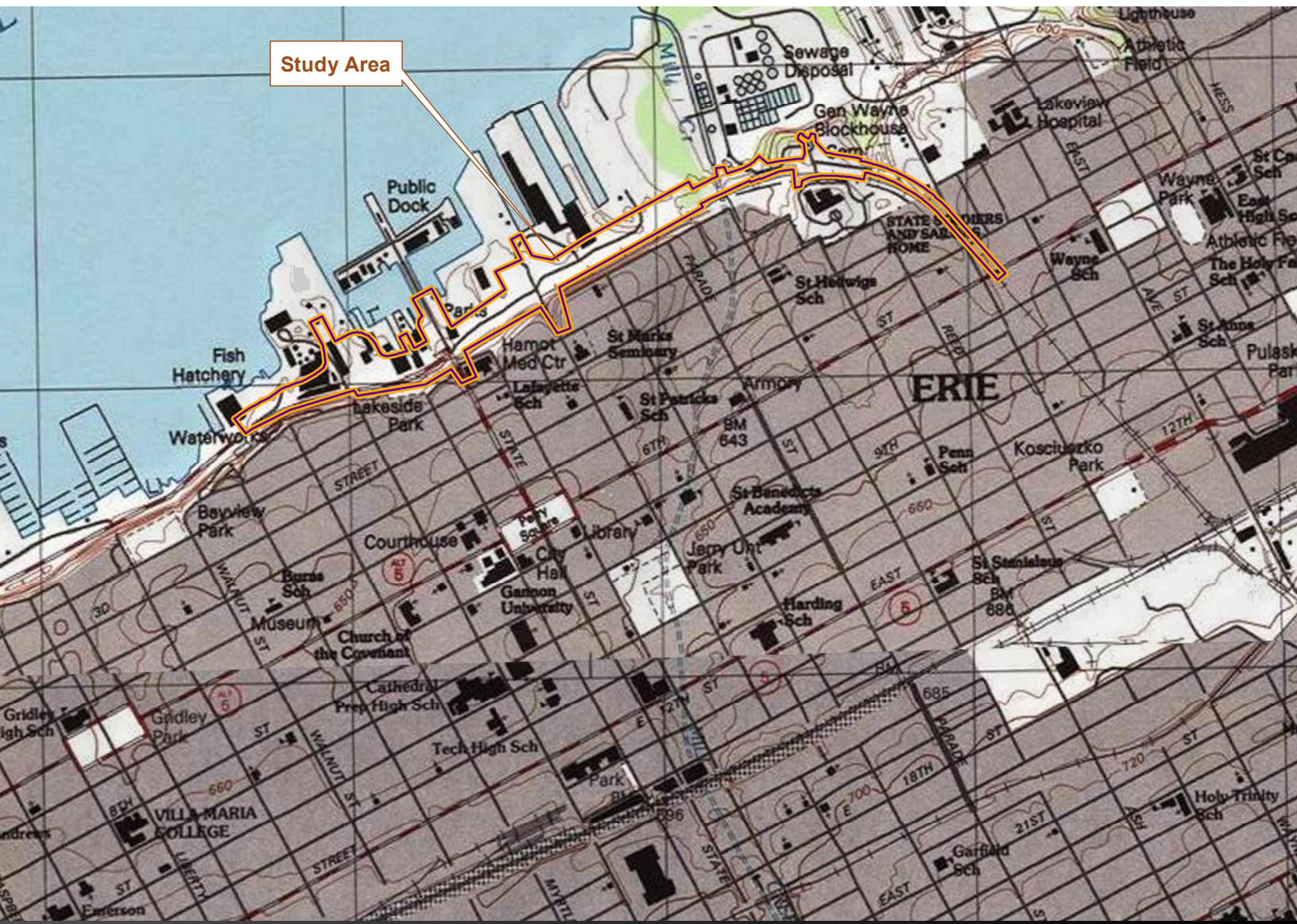
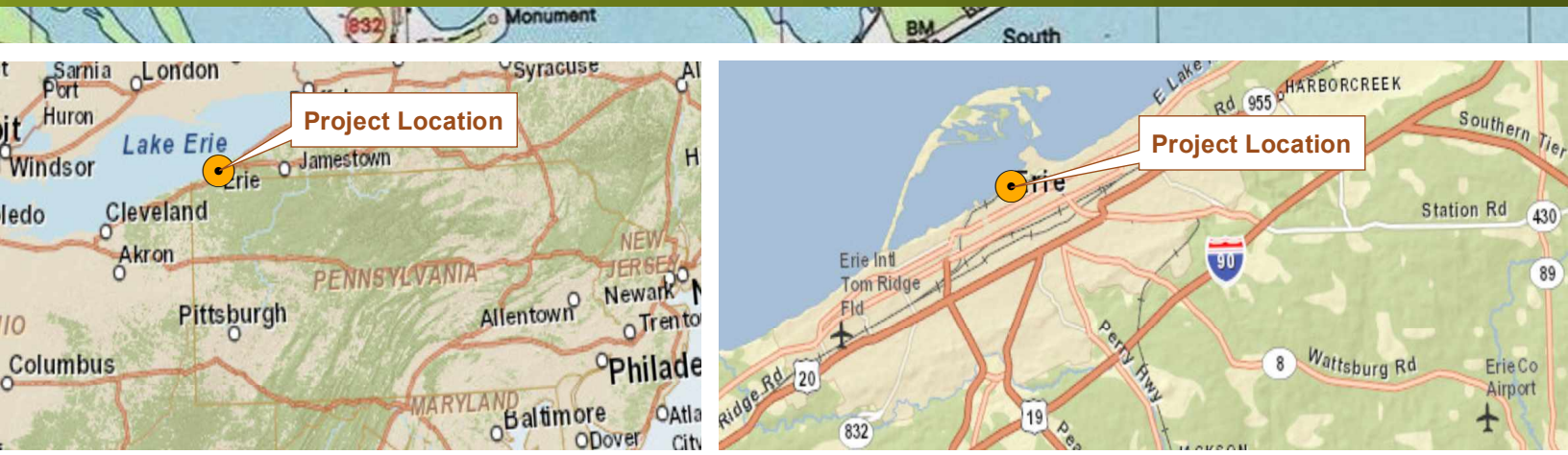


Figure 01
Project Location Map

Source: USGS, Erie North Quadrangle

Bayfront Parkway Central Corridor Improvement Project

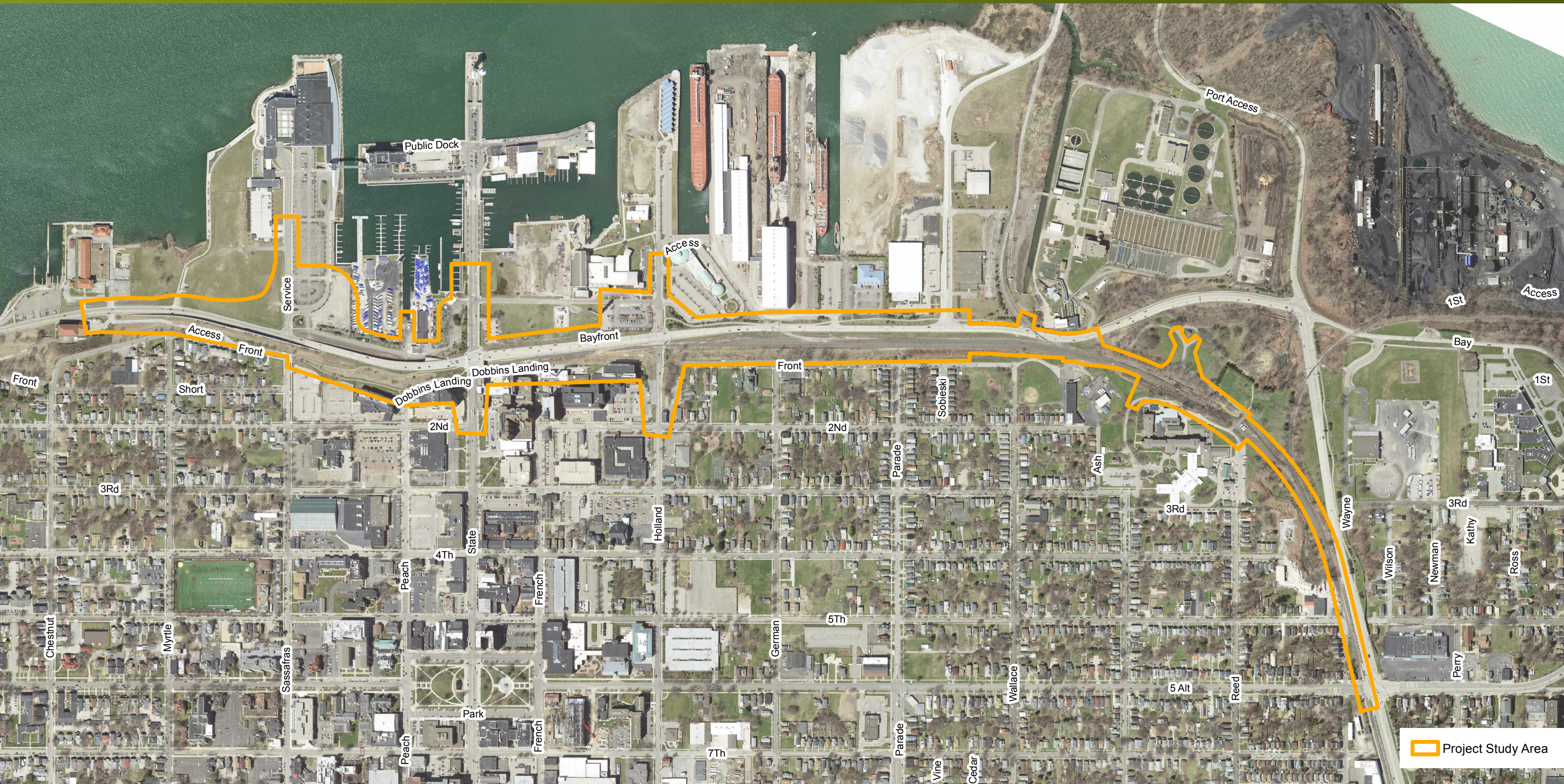
PennDOT District 1-0



Erie County



Figure 02
County Location Map



Project Study Area

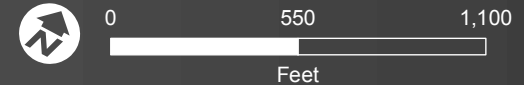
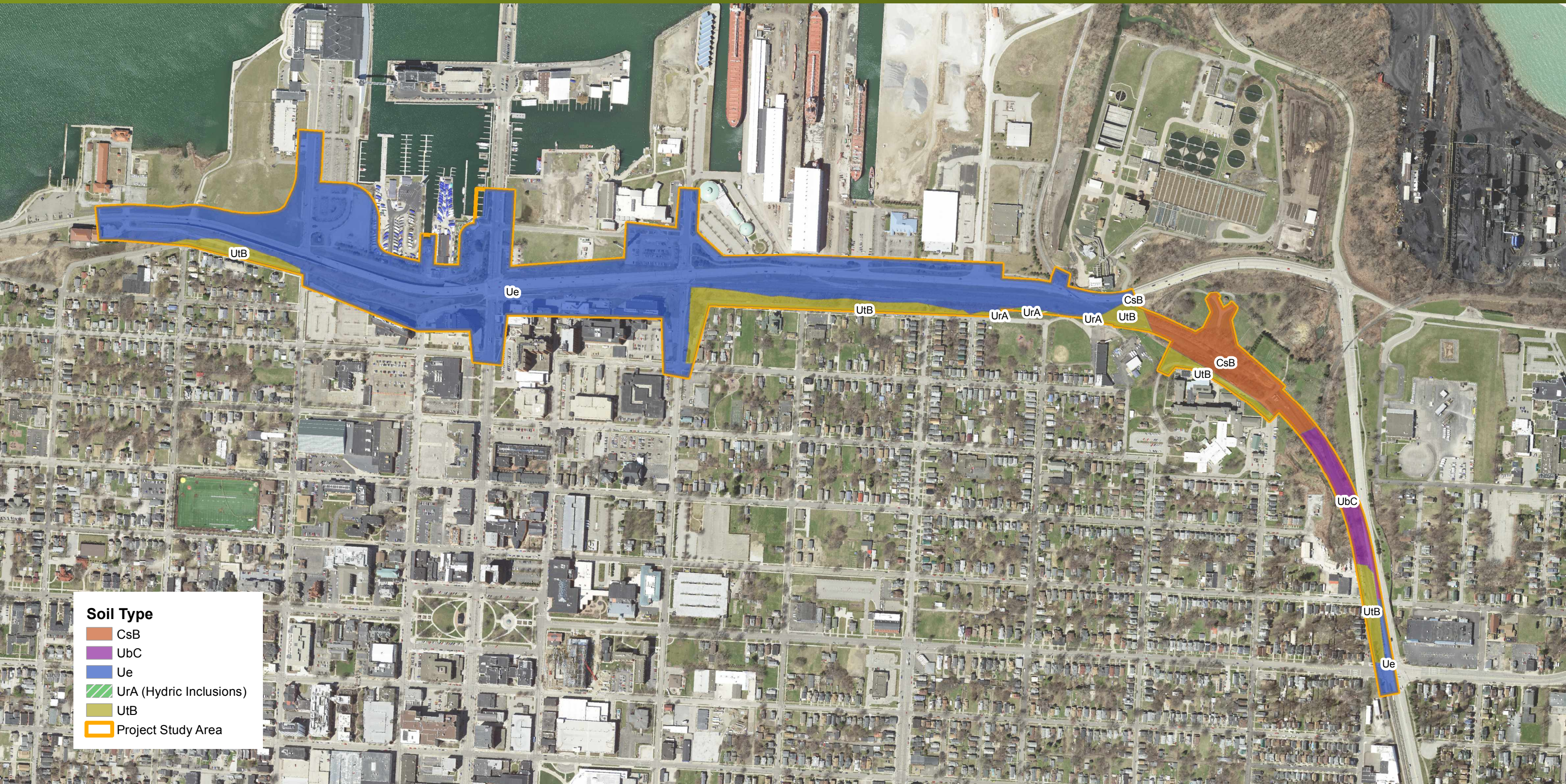


Figure 03
Aerial Map



Soil Type

- CsB
- UbC
- Ue
- UrA (Hydic Inclusions)
- UtB
- Project Study Area

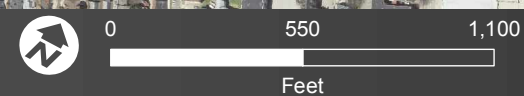
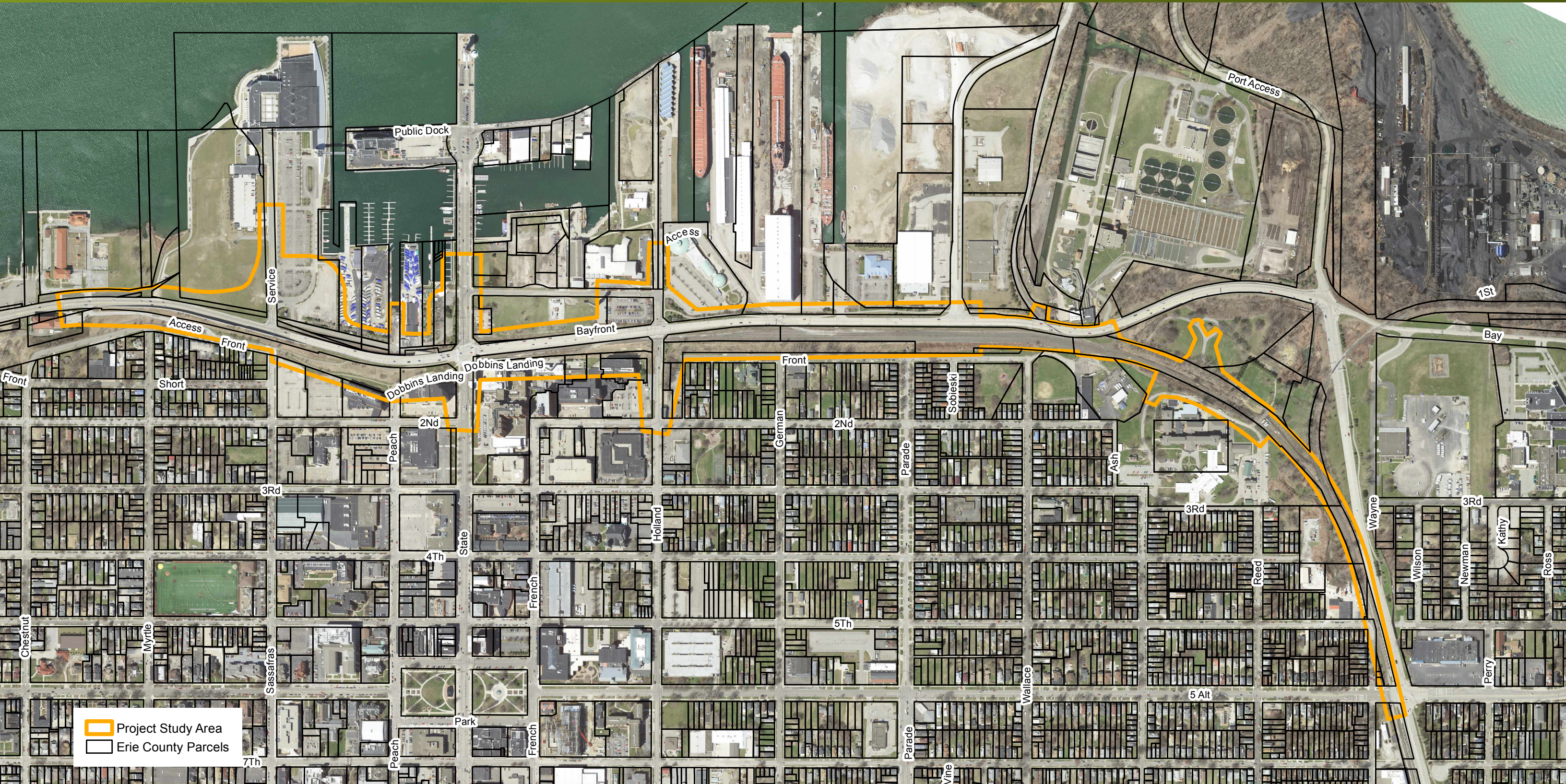




Figure 04
Soil Map



 Project Study Area
 Erie County Parcels

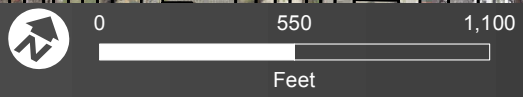


Figure 05
Tax Map / Parcel Diagram

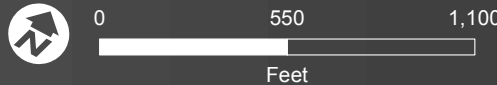
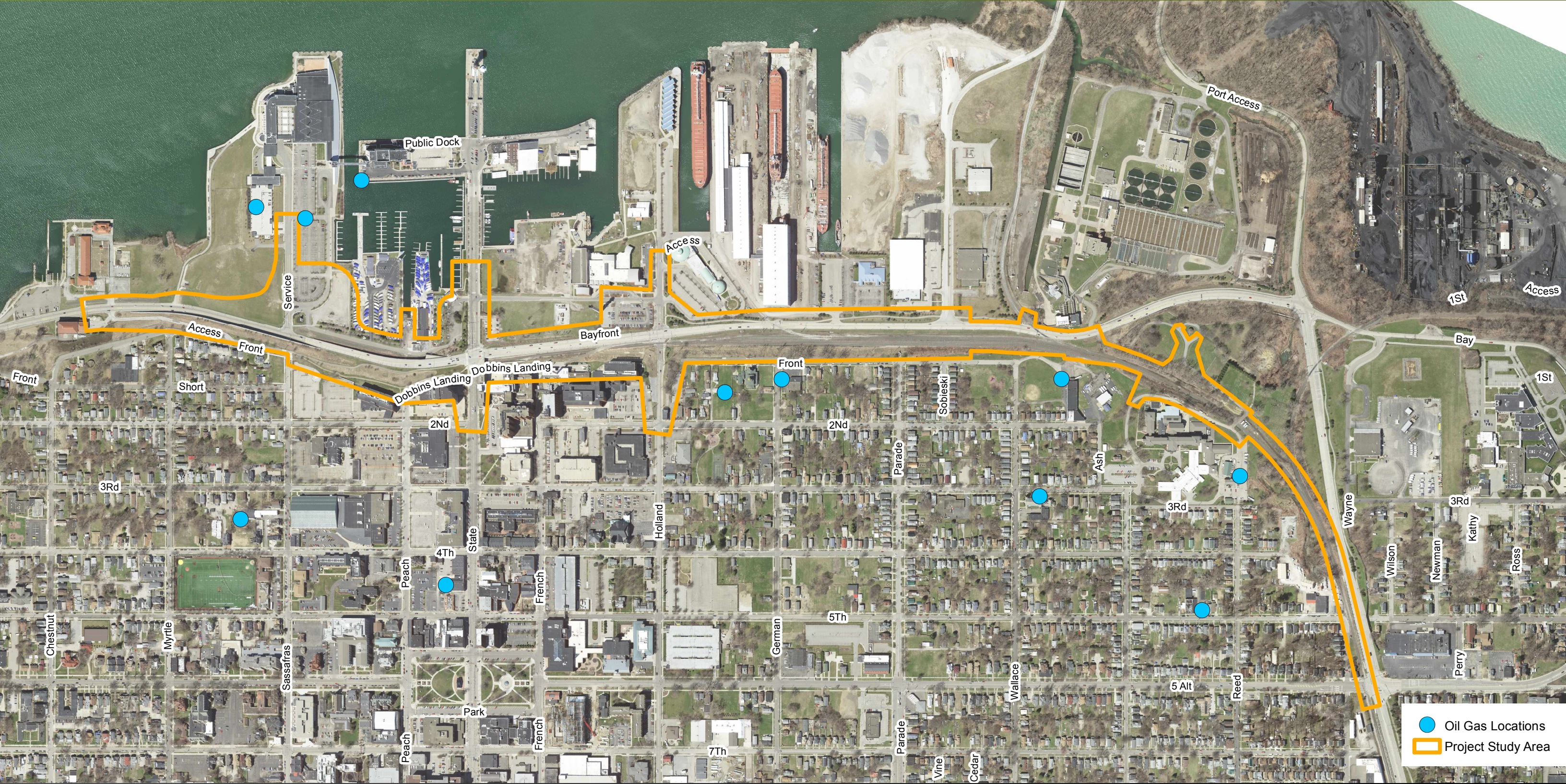


Figure 06
Oil Gas Location Map

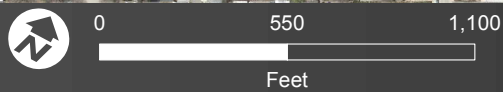
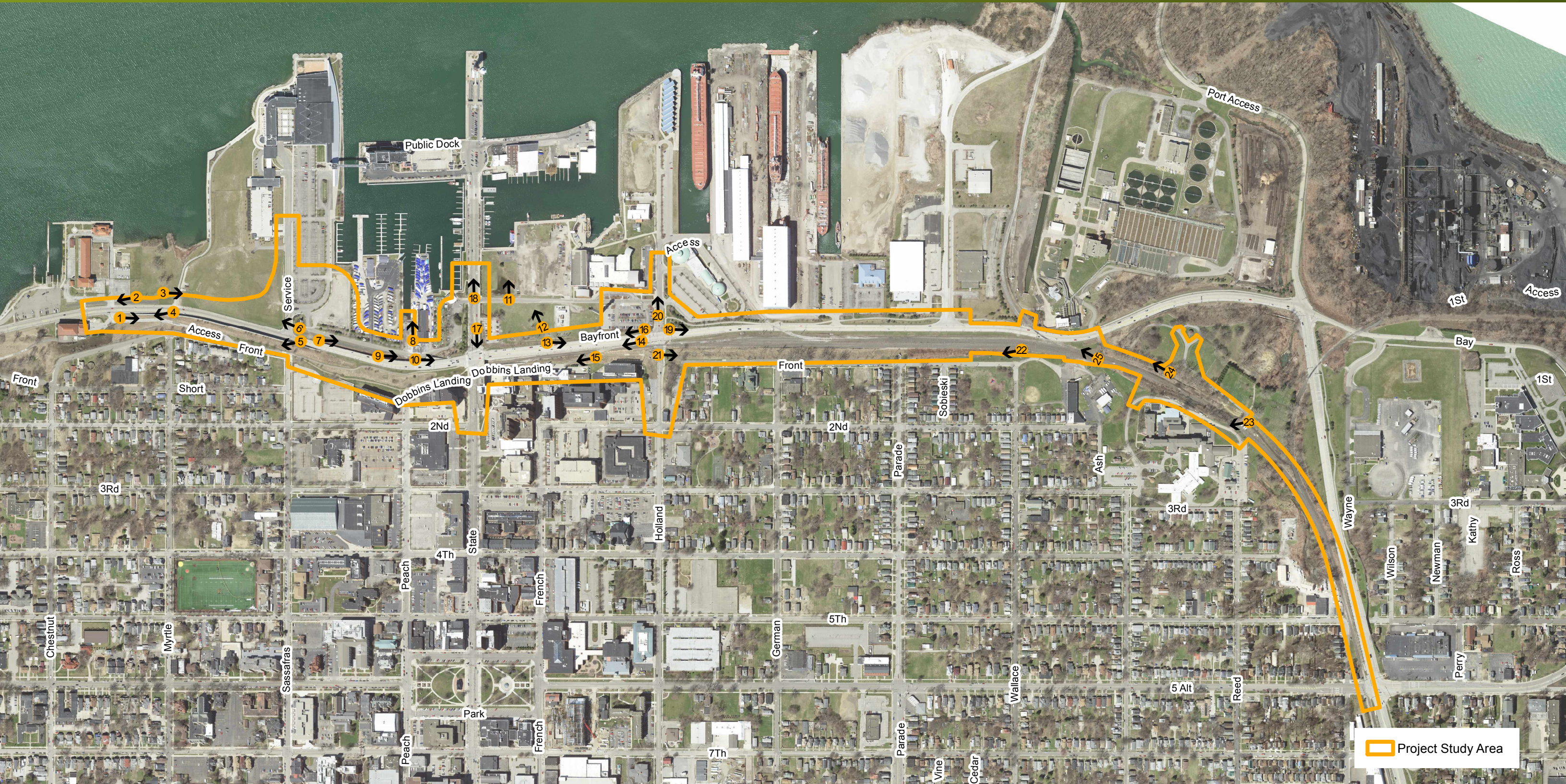
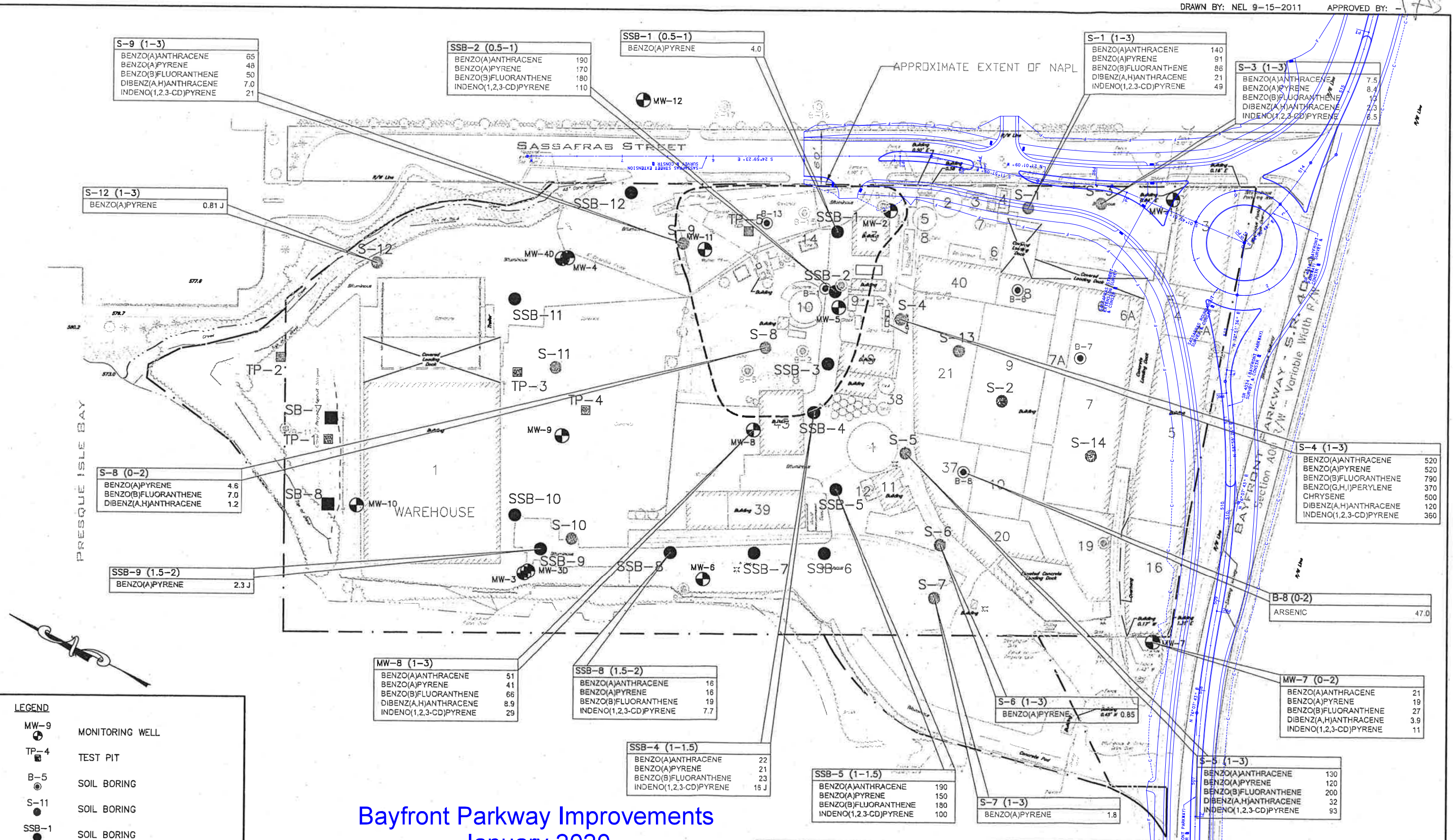
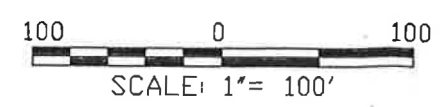


Figure 07
Photo Location Map

P:\PROJECTS\Erie County Convention Authority\3410110844 - GAF Remediation\CADD\FINAL\Fig 8-9 So. Exceedance.dwg Mon, 17 Oct 2011 - 9:12am nelagatuto



Bayfront Parkway Improvements January 2020



Ref: Sanford Surveying & Engineering, P.C.,
gaf-base.dwg, revised 11-3-2010.

Soil Sample Results Exceeding Act 2 Residential Non-Use Aquifer MSC. Results in mg/Kg

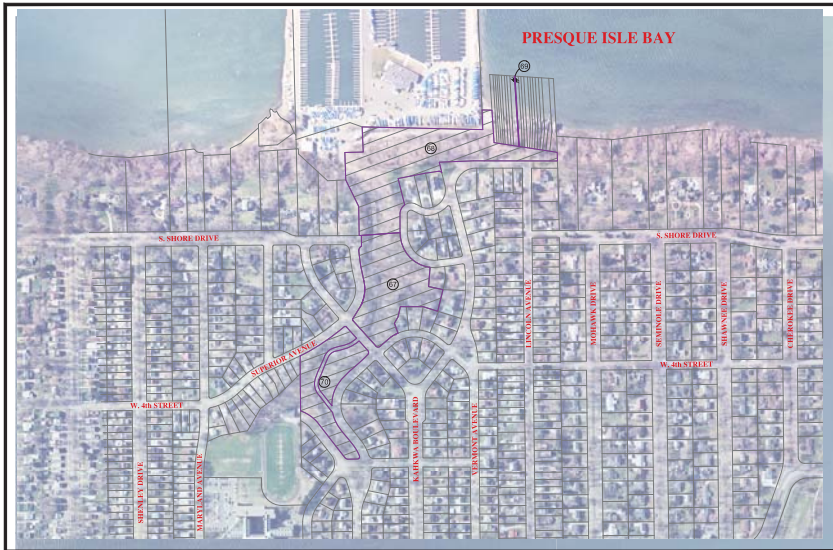
TP-5-0506	BENZO(A)PYRENE	11	SVOCs
	TRICHLOROETHENE	0.91	VOCs
	ARSENIC	12.7	METALS

<p>Act 2 Remedial Investigation Report Former GAF Site 218 Bayfront Parkway Erie, Pennsylvania Project No.: 3410110844</p>		<p>Environment & Infrastructure 800 North Bell Avenue, Suite 200 Pittsburgh, Pennsylvania 15106</p>	<p>Surface Soil (0-2 ft-BGS) Exceedance</p>
			<p>8</p>
			<p>Figure: 8</p>



APPENDIX 2

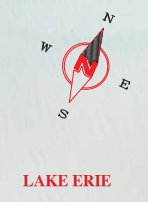
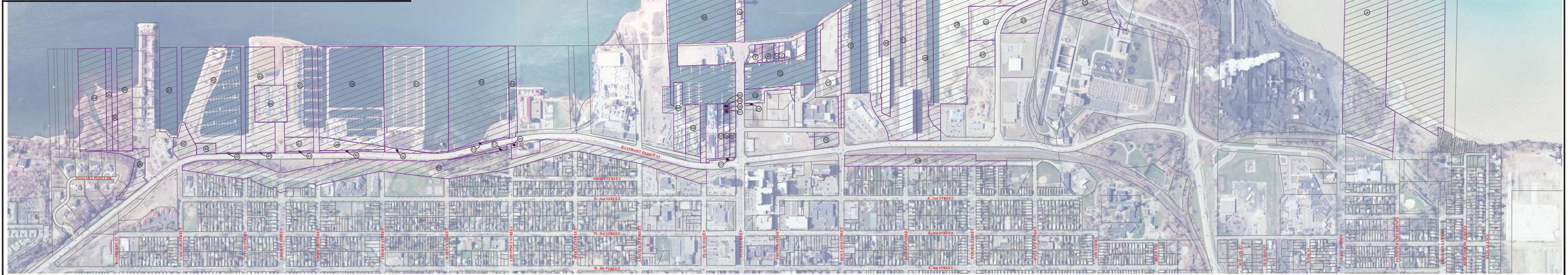
Tax Maps/Parcel Diagrams



PORT AUTHORITY PROPERTY INFORMATION

Property No.	Year	Description	Area	Depth	Front Feet	Property No.	Year	Description	Area	Depth	Front Feet
8011	2014	Office Building	10,000	100	100	8012	2014	Office Building	10,000	100	100
8013	2014	Office Building	10,000	100	100	8014	2014	Office Building	10,000	100	100
8015	2014	Office Building	10,000	100	100	8016	2014	Office Building	10,000	100	100
8017	2014	Office Building	10,000	100	100	8018	2014	Office Building	10,000	100	100
8019	2014	Office Building	10,000	100	100	8020	2014	Office Building	10,000	100	100
8021	2014	Office Building	10,000	100	100	8022	2014	Office Building	10,000	100	100
8023	2014	Office Building	10,000	100	100	8024	2014	Office Building	10,000	100	100
8025	2014	Office Building	10,000	100	100	8026	2014	Office Building	10,000	100	100
8027	2014	Office Building	10,000	100	100	8028	2014	Office Building	10,000	100	100
8029	2014	Office Building	10,000	100	100	8030	2014	Office Building	10,000	100	100
8031	2014	Office Building	10,000	100	100	8032	2014	Office Building	10,000	100	100
8033	2014	Office Building	10,000	100	100	8034	2014	Office Building	10,000	100	100
8035	2014	Office Building	10,000	100	100	8036	2014	Office Building	10,000	100	100
8037	2014	Office Building	10,000	100	100	8038	2014	Office Building	10,000	100	100
8039	2014	Office Building	10,000	100	100	8040	2014	Office Building	10,000	100	100
8041	2014	Office Building	10,000	100	100	8042	2014	Office Building	10,000	100	100
8043	2014	Office Building	10,000	100	100	8044	2014	Office Building	10,000	100	100
8045	2014	Office Building	10,000	100	100	8046	2014	Office Building	10,000	100	100
8047	2014	Office Building	10,000	100	100	8048	2014	Office Building	10,000	100	100
8049	2014	Office Building	10,000	100	100	8050	2014	Office Building	10,000	100	100
8051	2014	Office Building	10,000	100	100	8052	2014	Office Building	10,000	100	100
8053	2014	Office Building	10,000	100	100	8054	2014	Office Building	10,000	100	100
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8073	2014	Office Building	10,000	100	100	8074	2014	Office Building	10,000	100	100
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8099	2014	Office Building	10,000	100	100	8100	2014	Office Building	10,000	100	100

AUTHORIZED BY
DAVID LAIRD ASSOCIATES
 complete surveying &
 land development services
 185 WEST 20TH STREET, ERIE, PA 16590
 PHONE: 814-832-2222 FAX: 814-832-2222





APPENDIX 3 GeoSearch Report



On time. On target. In touch.™

Radius Report

[GeoLens by GeoSearch](#)

Target Property:

**Bayfront Parkway Improvement Project
Erie, Erie County, Pennsylvania 16507**

Prepared For:

MS Consultants-Moon

Order #: 134806

Job #: 321087

Project #: 60-06808-03-05-02-0802

Date: 10/28/2019

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Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR Â§312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFRÂ§312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

The information provided in this report was obtained from a variety of public sources. GeoSearch cannot ensure and makes no warranty or representation as to the accuracy, reliability, quality, errors occurring from data conversion or the customer's interpretation of this report. This report was made by GeoSearch for exclusive use by its clients only. Therefore, this report may not contain sufficient information for other purposes or parties. GeoSearch and its partners, employees, officers And independent contractors cannot be held liable For actual, incidental, consequential, special or exemplary damages suffered by a customer resulting directly or indirectly from any information provided by GeoSearch.

Target Property Summary

Target Property Information

*Bayfront Parkway Improvement Project
Erie, Pennsylvania 16507*

Coordinates

*Area centroid (-80.084484, 42.1359296)
601 feet above sea level*

USGS Quadrangle

Erie North, PA

Geographic Coverage Information

County/Parish: Erie (PA)

ZipCode(s):

Erie PA: 16501, 16502, 16503, 16505, 16507, 16511

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSPA	9	0	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR03	7	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR03	4	0	0.1250
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	1	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	5	1	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	1	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	2	0	1.0000
SUB-TOTAL		29	1	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	1	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	1	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR03	7	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSPA	31	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR03	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	3	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	2	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR03	2	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	1	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR03	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	1	0	TP/AP
ALTERNATIVE FUELING STATIONS	ALTFUELS	0	0	0.2500
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	1	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000
SUB-TOTAL		50	0	

Database Summary

STATE (PA) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
ACTIVITY AND USE LIMITATIONS	AUL	2	0	TP/AP
SITES WITH ENGINEERING CONTROLS	EC	0	0	TP/AP
SITES WITH INSTITUTIONAL CONTROLS	IC	0	0	TP/AP
REGISTERED STORAGE TANKS	RST	20	0	0.2500
BROWNFIELD SITES	BF	0	0	0.5000
BROWNFIELDS	BF2	0	0	0.5000
LEAKING REGISTERED STORAGE TANKS	LRST	13	0	0.5000
MUNICIPAL WASTE OPERATIONS	MWO	3	0	0.5000
SOLID WASTE FACILITIES	SWF	2	0	0.5000
VOLUNTARY CLEANUP SITES	VCP	7	0	0.5000
HSCA REMEDIAL SITES LISTING	HSCA	0	0	1.0000
STATE HAZARDOUS WASTE SITES	SHWS	1	0	1.0000
SUB-TOTAL		48	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AIR PERMITTED FACILITIES	AIRS	5	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS	NPDES	0	0	TP/AP
SPILLS LISTING	SPILLS	4	0	TP/AP
UNDERGROUND INJECTION CONTROL WELLS	UIC	1	0	TP/AP
DRY CLEANERS	CLEANERS	0	1	0.2500
SUB-TOTAL		10	1	

Database Summary

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		137	2	

Database Radius Summary

FEDERAL LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	1	NS	NS	NS	NS	NS	1
BRS	0.0200	1	NS	NS	NS	NS	NS	1
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	0.0200	0	NS	NS	NS	NS	NS	0
ECHOR03	0.0200	7	NS	NS	NS	NS	NS	7
ERNSPA	0.0200	9	NS	NS	NS	NS	NS	9
FRSPA	0.0200	31	NS	NS	NS	NS	NS	31
HMIRSR03	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	3	NS	NS	NS	NS	NS	3
ICISNPDES	0.0200	2	NS	NS	NS	NS	NS	2
LUCIS	0.0200	0	NS	NS	NS	NS	NS	0
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDES03	0.0200	2	NS	NS	NS	NS	NS	2
PADS	0.0200	1	NS	NS	NS	NS	NS	1
PCSR03	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	0.0200	0	NS	NS	NS	NS	NS	0
SEMCLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	1	NS	NS	NS	NS	NS	1
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
RCRAGR03	0.1250	4	3	NS	NS	NS	NS	7
RCRANGR03	0.1250	2	2	NS	NS	NS	NS	4
ALTFUELS	0.2500	0	0	0	NS	NS	NS	0
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
HISTPST	0.2500	0	0	1	NS	NS	NS	1
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	0.5000	0	0	0	0	NS	NS	0
DNPL	0.5000	0	0	0	0	NS	NS	0
NLRRCRAT	0.5000	0	0	0	0	NS	NS	0
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	0.5000	0	0	0	1	NS	NS	1

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SEMS	0.5000	0	0	0	0	NS	NS	0
SEMSARCH	0.5000	3	0	0	2	NS	NS	5
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	1.0000	0	0	0	0	0	NS	0
NMS	1.0000	0	0	0	0	0	NS	0
NPL	1.0000	0	0	0	0	0	NS	0
PNPL	1.0000	0	0	0	0	0	NS	0
RCRAC	1.0000	0	0	0	0	1	NS	1
RCRASUBC	1.0000	0	0	0	1	1	NS	2
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		67	5	1	4	2	0	79

Database Radius Summary

STATE (PA) LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRS	0.0200	5	NS	NS	NS	NS	NS	5
AUL	0.0200	2	NS	NS	NS	NS	NS	2
EC	0.0200	0	NS	NS	NS	NS	NS	0
IC	0.0200	0	NS	NS	NS	NS	NS	0
NPDES	0.0200	0	NS	NS	NS	NS	NS	0
SPILLS	0.0200	4	NS	NS	NS	NS	NS	4
UIC	0.0200	1	NS	NS	NS	NS	NS	1
CLEANERS	0.2500	0	0	0	NS	NS	NS	0
RST	0.2500	4	10	6	NS	NS	NS	20
BF	0.5000	0	0	0	0	NS	NS	0
BF2	0.5000	0	0	0	0	NS	NS	0
LRST	0.5000	1	5	3	4	NS	NS	13
MWO	0.5000	2	1	0	0	NS	NS	3
SWF	0.5000	2	0	0	0	NS	NS	2
VCP	0.5000	3	2	0	2	NS	NS	7
HSCA	1.0000	0	0	0	0	0	NS	0
SHWS	1.0000	0	0	0	0	1	NS	1
SUB-TOTAL		24	18	9	6	1	0	58

Database Radius Summary

TRIBAL LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
ODINDIAN	0.5000	0	0	0	0	NS	NS	0
INDIANRES	1.0000	0	0	0	0	0	NS	0

SUB-TOTAL		0	0	0	0	0	0	0
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TOTAL		91	23	10	10	3	0	137
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NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



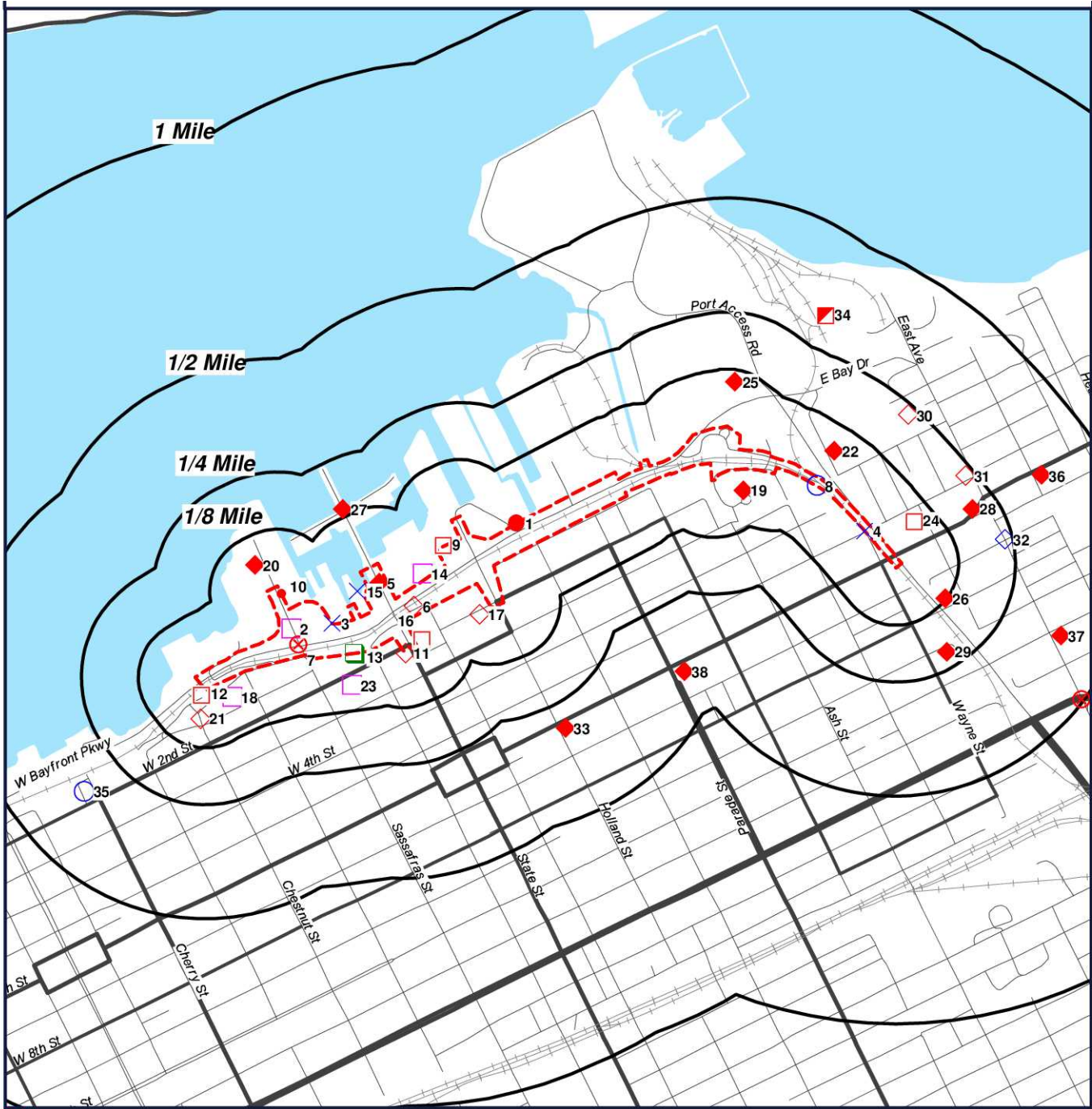
- | | | |
|----------------------|---------|----------|
| Target Property (TP) | BRS | UIC |
| RCRANGR03 | ERNSPA | FRSPA |
| LRST | HISTPST | RCRASUBC |
| RST | RCRAC | SHWS |
| VCP | | |
| SEMSARCH | | |
| RCRAGR03 | | |

**Bayfront Parkway Improvement
Project
Erie, Pennsylvania
16507**



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Radius Map 2



- | | | |
|----------------------|----------|----------|
| Target Property (TP) | BRS | UIC |
| RCRANGR03 | FRSPA | FRSPA |
| ERNSPA | HISTPST | HISTPST |
| LRST | RCRASUBC | RCRASUBC |
| RST | RCRAC | RCRAC |
| VCP | SHWS | SHWS |
| SEMSARCH | | |
| RCRAGR03 | | |

Bayfront Parkway Improvement Project Erie, Pennsylvania 16507



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Ortho Map



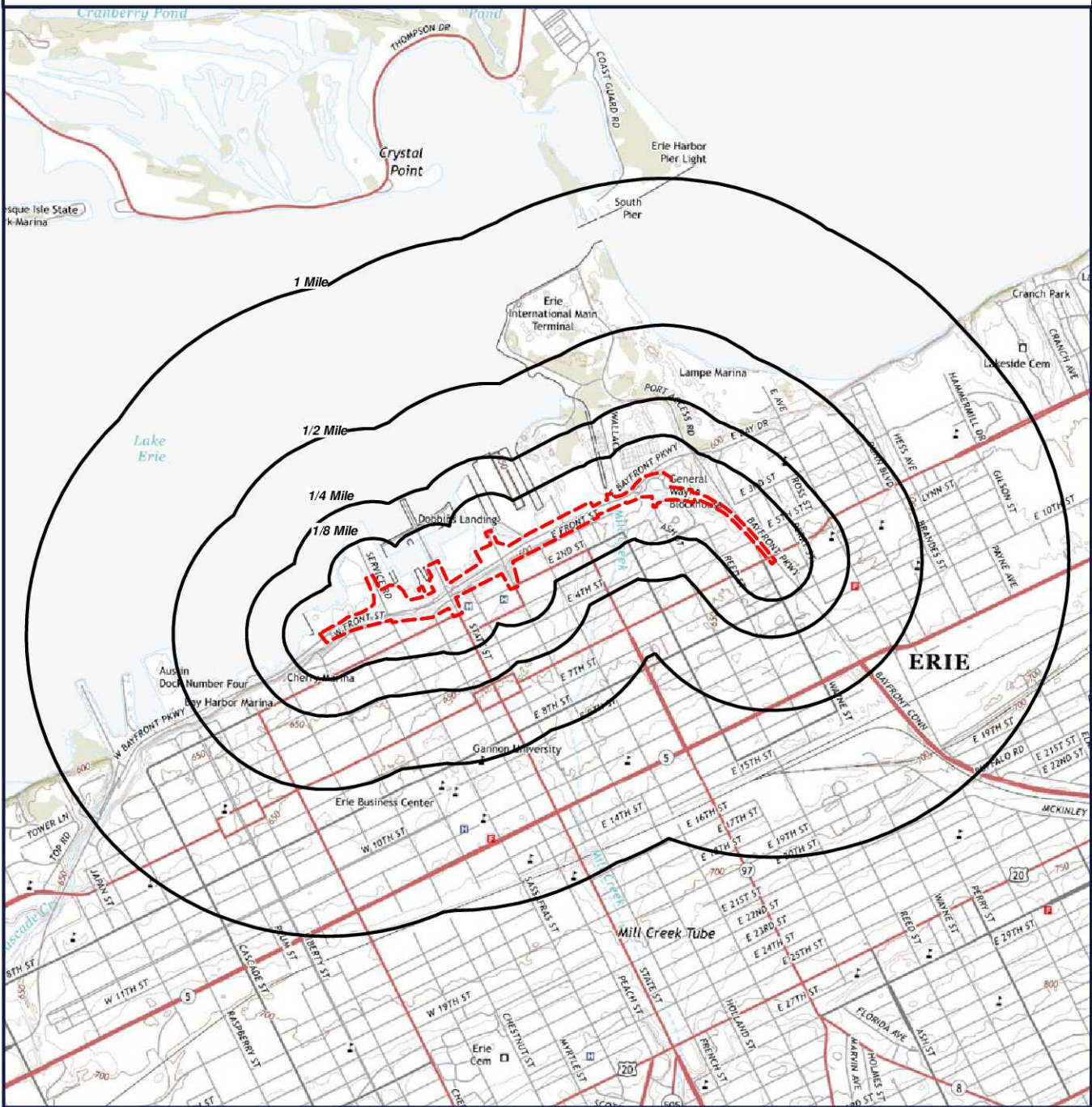
- | | | |
|----------------------|----------|----------|
| Target Property (TP) | BRS | UIC |
| RCRANGR03 | ERNSPA | FRSPA |
| LRST | HISTPST | RCRASUBC |
| RST | RCRAC | SHWS |
| VCP | SEMSARCH | |
| RCRAGR03 | | |

**Quadrangle(s): Erie North
Bayfront Parkway Improvement
Project
Erie, Pennsylvania
16507**



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Topographic Map



 Target Property (TP)

Quadrangle(s): Erie North
Source: USGS, 06/04/2013
Bayfront Parkway Improvement
Project
Erie, Pennsylvania
16507



0' 1400' 2800' 4200'
SCALE: 1" = 2800'

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Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	AIRS	545005AIRS	Lower (580 ft.)	TP	DONJON SHIPBUILDING & REPAIR LLC/ERIE	220 E BAYFRONT PKWY, ERIE, PA 16507	26
1	AIRSAFS	1014165	Lower (580 ft.)	TP	DONJON SHIPBUILDING & REPAIR LLC/ERIE	220 E BAYFRONT PKWY, ERIE, PA 16507	28
1	BRS	PAD987353281	Lower (580 ft.)	TP	DONJON SHIPBUILDING AND REPAIR	220 E BAYFRONT PKWY, ERIE, PA 16507	41
1	ECHOR03	110007789394	Lower (580 ft.)	TP	DONJON SHIPBUILDING & REPAIR	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	48
1	ERNSPA	1199862	Lower (580 ft.)	TP		DON JOHN SHIPBUILDING 220 EAST BAYFRONT PKWY, ERIE, PA	49
1	ERNSPA	1220644	Lower (580 ft.)	TP	DONJON SHIPBUILDING REPAIR	220 E. BAYFRONT PKWY, ERIE, PA 16507	51
1	FRSPA	110007789394	Lower (580 ft.)	TP	DONJON SHIPBUILDING & REPAIR	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	53
1	FRSPA	110057665263	Lower (580 ft.)	TP	ERIE SHIPBUILDING, LLC	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	54
1	FRSPA	110059499635	Lower (580 ft.)	TP	ERIE SHIPBUILDERS LLC	200 E. BAYFRONT PARKWAY, ERIE, PA 16507	55
1	FRSPA	110060098095	Lower (580 ft.)	TP	DONJON SHIPBUILDING & REPAIR LLC/ERIE	220 E BAYFRONT PKWY, ERIE, PA 16507	56
1	FRSPA	110070276531	Lower (580 ft.)	TP	DONJON SHIPBUILDING AND REPAIR, LLC	220 E. BAYFRONT PARKWAY, ERIE, PA 16507	57
1	ICIS	110007789394	Lower (580 ft.)	TP	DONJON SHIPBUILDING & REPAIR LLC/ERIE	220 E BAYFRONT PKWY, ERIE, PA 16507	58
1	ICISNPDES	PAR808308INPDES	Lower (580 ft.)	TP	DONJON SHIPBUILDING AND REPAIR	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	59
1	NPDES03	PAR808308	Lower (580 ft.)	TP	ERIE SHIPBUILDING LLC	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	61
1	RCRAGR03	PAD987353281	Lower (580 ft.)	TP	DONJON SHIPBUILDING & REPAIR	220 E BAYFRONT PKWY, ERIE, PA 16507	62
2	AIRS	250588AIRS	Lower (581 ft.)	TP	BLDG MATERIALS MFG CORP/ERIE	218 W BAYFRONT PKWY, ERIE, PA 16507	65
2	AIRS	250589AIRS	Lower (581 ft.)	TP	GAF CORP/LAKEFRONT	SASSAFRAS ST, ERIE, PA 16512	66
2	AUL	625516	Lower (581 ft.)	TP	ERIE CNTY CONVENTION CTR AUTH BAYFRONT SITE	218 W BAYFRONT PKWY, ERIE, PA 16507	67
2	ECHOR03	110008054540	Lower (581 ft.)	TP	BUILDING MATERIALS MANUFACTURING CORP	218 WEST BAYFRONT PARKWAY, ERIE, PA 16507	68

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
2	ERNSPA	575298	Lower (581 ft.)	TP		218 WEST BAYFRONT PKWY, ERIE, PA	69
2	ERNSPA	644522	Lower (581 ft.)	TP		218 WEST BAY FRONT PARKWAY, ERIE, PA	71
2	FRSPA	110008054540	Lower (581 ft.)	TP	BUILDING MATERIALS MANUFACTURING CORP	218 WEST BAYFRONT PARKWAY, ERIE, PA 16507	73
2	FRSPA	110059267831	Lower (581 ft.)	TP	GAF BUILDING MATERIALS CORPORATION	FOOT OF SASSAFRASS STREET, ERIE, PA 16507	74
2	FRSPA	110059896091	Lower (581 ft.)	TP	GAF CORP/LAKEFRONT	SASSAFRAS ST, ERIE, PA 16512	75
2	RCRANGR03	PAD005032495	Lower (581 ft.)	TP	GAF BLDG MATERIALS	218 W BAYFRONT PKWY, ERIE, PA 16507	76
2	SEMSARCH	PAD005032495	Lower (581 ft.)	TP	GAF CORP	FOOT OF SASSAFRAS ST, ERIE, PA 16507	78
2	SPILLS	240575	Lower (581 ft.)	TP		218 W BAYFRONT PARKWAY PA 16507, PA	79
2	SPILLS	241295	Lower (581 ft.)	TP		218 WEST BAYFRONT PARKWAY PA 16507, PA	80
2	SPILLS	241343	Lower (581 ft.)	TP		218 WEST BAYFRONT HIGHWAY PA 16507, PA	81
2	TRI	16507BLDNG12 8WB	Lower (581 ft.)	TP	BUILDING MATERIALS MANUFACTURING CORP	218 W BAYFRONT PKWY, ERIE, PA 16507	82
2	VCP	625516	Lower (581 ft.)	TP	ERIE CNTY CONVENTION CTR AUTH BAYFRONT SITE	218 W BAYFRONT PKWY, ERIE, PA 16507	83
3	ERNSPA	1009921	Lower (582 ft.)	TP	BETWEEN THE SHERATON DOCKS AND PRESQUE ISLE YACHT CLUB DOCKS	120 WEST FRONT STREET, ERIE, PA	85
3	ERNSPA	312623	Lower (582 ft.)	TP		120 W FRONT ST, ERIE, PA 16512	87
4	ERNSPA	155395	Higher (633 ft.)	TP		EAST 5TH ST AND WAYNE ST, ERIE, PA 16512	89
5	ECHOR03	110070251166	Lower (584 ft.)	0.009 mi. ENE (48 ft.)	HAMPTON INN - HARBOR PLACE	EAST FRONT STREET, ERIE, CITY OF, PA 16507	91
5	FRSPA	110070251166	Lower (584 ft.)	0.009 mi. ENE (48 ft.)	HAMPTON INN - HARBOR PLACE	EAST FRONT STREET, ERIE, CITY OF, PA 16507	92
5	LRST	592371	Lower (584 ft.)	TP	FRONT STREET GENERATING STA	FRONT ST & STATE ST, ERIE, PA 16507	93
5	RST	25-16342	Lower (584 ft.)	TP	FRONT STREET GENERATING STA	FRONT ST & STATE ST, ERIE, PA 16507	95
6	RST	25-90509	Lower (598 ft.)	TP	BAYSHORE MARINE	133 E BAYFRONT ST, ERIE, PA 16507	98
7	AUL	765682	Lower (581 ft.)	TP	CSX BAYFRONT SITE FMR	W SASSAFRAS ST-N BAYFRONT PKWY, ERIE, PA 16501	100

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
7	VCP	765682	Lower (581 ft.)	TP	CSX BAYFRONT SITE FMR	W SASSAFRAS ST-N BAYFRONT PKWY, ERIE, PA 16501	101
8	MWO	637049MWO	Higher (621 ft.)	TP	WAYNE STREET DUMP	ERIE COUNTY, ERIE, PA 16507	102
8	SEMSARCH	PAD023009970	Higher (621 ft.)	TP	WAYNE STREET DUMP	EAST BAYFRONT RD - END OF, ERIE, PA 16501	103
8	SWF	637049	Higher (621 ft.)	TP	WAYNE ST DUMP	PA	104
9	ECHOR03	110000919418	Lower (582 ft.)	0.003 mi. NNW (16 ft.)	PHMC FLAGSHIP NIAGARA	164 E FRONT ST, ERIE, PA 16507	105
9	FRSPA	110000919418	Lower (582 ft.)	0.003 mi. NNW (16 ft.)	PHMC FLAGSHIP NIAGARA	164 E FRONT ST, ERIE, PA 16507	106
9	RCRAGR03	PAD987399672	Lower (582 ft.)	0.003 mi. NNW (16 ft.)	PHMC FLAGSHIP NIAGARA	164 E FRONT ST, ERIE, PA 16507	107
10	UIC	049-23901	Lower (577 ft.)	0.008 mi. ENE (42 ft.)	ERIE SAND & GRAVEL CO 1	ERIE COUNTY, ERIE, PA 16507	109
11	RST	25-91502	Higher (636 ft.)	0.008 mi. SSE (42 ft.)	HAMOT MED CTR	200 STATE ST, ERIE, PA 16550	110
12	ECHOR03	110000560642	Lower (592 ft.)	0.01 mi. SW (53 ft.)	CHESTNUT FILTRATION PLANT	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	111
12	ERNSPA	494994	Lower (592 ft.)	0.01 mi. SW (53 ft.)		340 WEST BAYFRONT PWY, ERIE, PA 16507	112
12	FRSPA	110000560642	Lower (592 ft.)	0.01 mi. SW (53 ft.)	CHESTNUT FILTRATION PLANT	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	114
12	FRSPA	110010963298	Lower (592 ft.)	0.01 mi. SW (53 ft.)	CHESTNUT ST TREATMENT PLANT	340 W BAYFRONT PARKWAY, ERIE, PA 16507	115
12	FRSPA	110049586783	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY- CHESTNUT STREET PLNT	340 W. BAYFRONT PKWY., ERIE, PA 16507	116
12	FRSPA	110063392724	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY- SIGSBEE PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	117
12	FRSPA	110063397104	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY-E LAKE TANK PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	118
12	FRSPA	110063397113	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY- CAMPHAUSEN PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	119
12	FRSPA	110063407576	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY- MCKEAN TAKE POINT	340 W. BAYFRONT PKWY., ERIE, PA 16507	120
12	FRSPA	110063407585	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY- STATION RD PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	121

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
12	FRSPA	110063407763	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY-KUHL RD TANK PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	122
12	FRSPA	110063455773	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY-E LAKE PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	123
12	FRSPA	110063478543	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY-JOHNSON PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	124
12	FRSPA	110063519072	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY-DEPOT RD PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	125
12	FRSPA	110063537436	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTHORITY-CHERRY PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	126
12	FRSPA	110064363488	Lower (592 ft.)	0.01 mi. SW (53 ft.)	MCKEAN TWP WATERWORKS-RT 99 TP BOOSTER	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	127
12	ICIS	110000560642	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE WATER WORKS CHESTNUT FILTRATION PLANT	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	128
12	ICISNPDES	PA0104167INPDES	Lower (592 ft.)	0.01 mi. SW (53 ft.)	CHESTNUT ST TREATMENT PLANT	340 W BAYFRONT PARKWAY, ERIE, PA 16507	129
12	NPDES R03	PA0100889	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTH	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	131
12	RCRAGR03	PAR000501494	Lower (592 ft.)	0.01 mi. SW (53 ft.)	ERIE CITY WATER AUTH	340 W BAYFRONT PKWY, ERIE, PA 16507	132
13	FRSPA	110059527757	Higher (628 ft.)	0.01 mi. S (53 ft.)	MAYER BROTHERS CONSTRUCTION INC.	100 PEACH STREET, ERIE, PA 16550	133
14	AIRS	254268AIRS	Lower (582 ft.)	0.011 mi. NW (58 ft.)	PENELEC/FRONT ST	FRONT ST, ERIE, PA 16507	134
14	ECHOR03	110012512218	Lower (582 ft.)	0.011 mi. NW (58 ft.)	PENELEC FRONT ST STATION	124 FRONT STREET, ERIE, PA 16507	135
14	FRSPA	110012512218	Lower (582 ft.)	0.011 mi. NW (58 ft.)	PENELEC FRONT ST STATION	124 FRONT STREET, ERIE, PA 16507	136
14	FRSPA	110059934987	Lower (582 ft.)	0.011 mi. NW (58 ft.)	PENELEC FRONT ST STATION	124 FRONT ST, ERIE, PA 16507	137
14	FRSPA	110060113158	Lower (582 ft.)	0.011 mi. NW (58 ft.)	PENELEC/FRONT ST	FRONT ST, ERIE, PA 16507	138
14	PADS	PAD000000012	Lower (582 ft.)	0.011 mi. NW (58 ft.)	PENELEC FRONT STREET STN	FRONT AND STATE STS, ERIE, PA 16507	139
14	RCRANGR03	PAD000621748	Lower (582 ft.)	0.011 mi. NW (58 ft.)	PENELEC FRONT ST STATION	124 FRONT ST, ERIE, PA 16507	140
14	SEMSARCH	PAD000621748	Lower (582 ft.)	0.011 mi. NW (58 ft.)	PENELEC-FRONT STREET	FRONT ST, ERIE, PA 16507	142
14	VCP	625546	Lower (582 ft.)	0.011 mi. NW (58 ft.)	GPU FRONT ST STA PENELEC	FRONT ST, ERIE, PA 16511	143
15	ERNSPA	75647	Lower (575 ft.)	0.015 mi. W (79 ft.)		UNITED ERIE FACILITY, ERIE, PA	145
16	AIRS	518433AIRS	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	UPMC HAMOT/ERIE	201 STATE ST, ERIE, PA 16550	147

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
16	ECHOR03	110001058621	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	UPMC HAMOT/ERIE	201 STATE ST, ERIE, PA 16550	149
16	FRSPA	110001058621	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	UPMC HAMOT/ERIE	201 STATE ST, ERIE, PA 16550	150
16	FRSPA	110060032156	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	UPMC HAMOT MEDICAL CTR	201 STATE ST, ERIE, PA 16550	151
16	FRSPA	110060075528	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	HAMOT MED CTR/ERIE	201 STATE ST, ERIE, PA 16550	152
16	ICIS	110001058621	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	HAMOT MEDICAL CENTER	201 STATE STREET, ERIE, PA 16550	153
16	MWO	259524MWO	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	UPMC HAMOT	ERIE COUNTY, ERIE, PA 16507	154
16	RCRAGR03	PAD987342441	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	UPMC HAMOT MEDICAL CTR	201 STATE ST, ERIE, PA 16550	155
16	RST	25-04648	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	HAMOT MED CTR	201 STATE ST, ERIE, PA 16550	157
16	SPILLS	235640	Higher (636 ft.)	0.019 mi. ENE (100 ft.)		201 STATE STREET PA 16501, PA	159
16	SWF	259524	Higher (636 ft.)	0.019 mi. ENE (100 ft.)	HAMOT MEDICAL CENTER - INCINERATOR	201 STATE ST, ERIE, PA 16550	160
17	RST	25-91013	Higher (637 ft.)	0.03 mi. WSW (158 ft.)	HEALTHSOUTH GREAT LAKES REHAB HOSP	143 E 2ND ST, ERIE, PA 16507	161
18	RCRANGR03	PAD005030200	Higher (634 ft.)	0.041 mi. SSE (216 ft.)	NIAGARA MACH	325 W FRONT ST, ERIE, PA 16507	162
19	LRST	592776	Higher (635 ft.)	0.047 mi. S (248 ft.)	PA SOLDIERS & SAILORS HOME	560 E 3RD ST, ERIE, PA 16512	164
19	RST	25-90895	Higher (635 ft.)	0.047 mi. S (248 ft.)	PA SOLDIERS & SAILORS HOME	560 E 3RD ST, ERIE, PA 16512	165
20	LRST	592263	Lower (575 ft.)	0.062 mi. NNW (327 ft.)	ERIE SAND & GRAVEL CO	FOOT OF SASSAFRAS ST, ERIE, PA 16507	167
20	RCRAGR03	PAR000028324	Lower (575 ft.)	0.062 mi. NNW (327 ft.)	ERIE SAND & GRAVEL	2 E BAY DR/PORT ACCESS RD, ERIE, PA 16507	168
20	RST	25-09512	Lower (575 ft.)	0.062 mi. NNW (327 ft.)	ERIE SAND & GRAVEL CO	FOOT OF SASSAFRAS ST, ERIE, PA 16507	170
20	RST	25-36244	Lower (575 ft.)	0.062 mi. NNW (327 ft.)	ERIE SAND & GRAVEL	2 E BAY DR, ERIE, PA 16507	172

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
20	RST	25-36557	Lower (575 ft.)	0.062 mi. NNW (327 ft.)	ERIE INTL MARINE TERM	2 E BAY DR, ERIE, PA 16507	173
21	RST	25-03219	Lower (592 ft.)	0.063 mi. SSW (333 ft.)	ERIE CITY SOMMERHEIN DR	FOOT OF CHESTNUT ST, ERIE, PA 16507	174
22	LRST	592521	Higher (631 ft.)	0.067 mi. NE (354 ft.)	NFG ERIE SVC CTR	225 WAYNE ST, ERIE, PA 16507	175
22	RCRAGR03	PAD987393543	Higher (631 ft.)	0.067 mi. NE (354 ft.)	NATIONAL FUEL GAS DISTR CO ERIE SVC CTR	225 WAYNE ST, ERIE, PA 16507	177
22	RST	25-27073	Higher (631 ft.)	0.067 mi. NE (354 ft.)	NFG ERIE SVC CTR	225 WAYNE ST, ERIE, PA 16507	179
22	VCP	625568	Higher (631 ft.)	0.067 mi. NE (354 ft.)	NATL FUEL GAS	225 WAYNE ST, ERIE, PA 16507	182
22	VCP	631097	Higher (631 ft.)	0.067 mi. NE (354 ft.)	NATL FUEL GAS ERIE SVC CENTER	225 WAYNE ST, ERIE, PA 16507	183
23	RCRANGR03	PAD074991878	Higher (628 ft.)	0.071 mi. S (375 ft.)	MEDI-CENTER HOSPITAL	137 W 2ND ST, ERIE, PA 16503	184
24	RCRAGR03	PAR000546853	Higher (645 ft.)	0.082 mi. ENE (433 ft.)	FAMILY DOLLAR STORE NO 3779	856 E 6TH ST, ERIE, PA 16507	186
25	LRST	592189	Lower (586 ft.)	0.097 mi. NNE (512 ft.)	ERIE WWTP	68 PORT ACCESS RD, ERIE, PA 16507	188
25	MWO	660904MWO	Lower (586 ft.)	0.097 mi. NNE (512 ft.)	ERIE CITY STP	ERIE COUNTY, ERIE, PA 16507	189
25	RST	25-03217	Lower (586 ft.)	0.097 mi. NNE (512 ft.)	ERIE WWTP	68 PORT ACCESS RD, ERIE, PA 16507	190
25	RST	25-34328	Lower (586 ft.)	0.097 mi. NNE (512 ft.)	CITY OF ERIE WWTP	68 PORT ACCESS RD, ERIE, PA 16507	193
26	LRST	592939	Higher (653 ft.)	0.122 mi. ESE (644 ft.)	SIMON BLDG PROD	834 E 8TH ST, ERIE, PA 16503	194
26	RST	25-91612	Higher (653 ft.)	0.122 mi. ESE (644 ft.)	SIMON BLDG PROD	834 E 8TH ST, ERIE, PA 16503	195
27	LRST	592571	Lower (575 ft.)	0.14 mi. NNW (739 ft.)	MCALLISTER MARINA	E BAY FRONT, ERIE, PA 16507	196
27	RST	25-31259	Lower (575 ft.)	0.14 mi. NNW (739 ft.)	MCALLISTER MARINA	E BAY FRONT, ERIE, PA 16507	197
27	RST	25-91687	Lower (575 ft.)	0.129 mi. NW (681 ft.)	ERIE CONVENTION CTR HOTEL PARKING GARAGE	4 STATE ST, ERIE, PA 16507	200
28	LRST	592478	Higher (650 ft.)	0.194 mi. ENE (1024 ft.)	ATLANTIC 0363 8756 CO OP 4047	954 E 6TH ST, ERIE, PA 16507	201

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
28	RST	25-24199	Higher (650 ft.)	0.194 mi. ENE (1024 ft.)	ATLANTIC 0363 8756 CO OP 4047	954 E 6TH ST, ERIE, PA 16507	203
29	LRST	592742	Higher (652 ft.)	0.216 mi. SE (1140 ft.)	ERIE SCH DIST BUS GARAGE	857 E 9TH ST, ERIE, PA 16503	205
29	RST	25-90712	Higher (652 ft.)	0.216 mi. SE (1140 ft.)	ERIE SCH DIST BUS GARAGE	857 E 9TH ST, ERIE, PA 16503	206
30	RST	25-90823	Higher (638 ft.)	0.228 mi. NE (1204 ft.)	GERTRUDE A BARBER DR CTR	100 BARBER PL, ERIE, PA 16507	208
31	RST	25-16820	Higher (645 ft.)	0.231 mi. ENE (1220 ft.)	FLANAGANS SVC	430 EAST AVE, ERIE, PA 16507	209
32	HISTPST	2316013453	Higher (654 ft.)	0.233 mi. E (1230 ft.)		7TH & EAST STS, ERIE, PA	211
33	LRST	592341	Higher (639 ft.)	0.308 mi. SSE (1626 ft.)	ERIE SPEED CHECK	209 E 6TH ST, ERIE, PA 16507	212
33	VCP	821719	Higher (639 ft.)	0.308 mi. SSE (1626 ft.)	ERIE SPEED CHECK	209 E 6TH ST, ERIE, PA 16507	214
34	RCRASUBC	PAD077478964	Lower (588 ft.)	0.326 mi. NE (1721 ft.)	ERIE COKE	EAST AVE, ERIE, PA 16512	215
34	RCRAT	PAD077478964	Lower (588 ft.)	0.326 mi. NE (1721 ft.)	ERIE COKE	EAST AVE, ERIE, PA 16512	217
34	SEMSARCH	PAD077478964	Lower (588 ft.)	0.326 mi. NE (1721 ft.)	ERIE COKE CORP	FOOT OF EAST ST, ERIE, PA 16501	219
35	SEMSARCH	PAD981104649	Higher (641 ft.)	0.345 mi. WSW (1822 ft.)	NORTH CREEK ROAD LANDFILL #70	606 W 2ND ST, ERIE, PA 16507	220
36	LRST	592152	Higher (641 ft.)	0.361 mi. ENE (1906 ft.)	KWIK FILL M 8	1101 E LAKE RD, ERIE, PA 16500	221
37	LRST	592488	Higher (661 ft.)	0.384 mi. ESE (2028 ft.)	EAST AVENUE SPEED CHECK	1001 EAST AVE, ERIE, PA 16503	224
38	LRST	592629	Higher (645 ft.)	0.4 mi. SE (2112 ft.)	HOLIDAY MART II	605 PARADE ST, ERIE, PA 16503	226
39	VCP	625534	Higher (669 ft.)	0.493 mi. ESE (2603 ft.)	ERIE CITY IRON WORKS	12TH & EAST AVE, ERIE, PA 16510	228
40	RCRASUBC	PAD050942291	Higher (663 ft.)	0.659 mi. E (3480 ft.)	AMER METER	920 PAYNE AVE, ERIE, PA 16512	229
41	RCRAC	PAD005031737	Higher (677 ft.)	0.684 mi. ESE (3612 ft.)	ACCU RIDE ERIE LP	1015 E 12TH ST, ERIE, PA 16503	232
42	SHWS	644814	Higher (686 ft.)	0.986 mi. S (5206 ft.)	ERIE RESISTOR SITE	PA	236

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 601 ft.

NOTE: Standard environmental records are displayed in **bold**.

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
4	ERNSPA	633 ft.		EAST 5TH ST AND WAYNE ST, ERIE, PA 16512	89
8	MWO	621 ft.	WAYNE STREET DUMP	ERIE COUNTY, ERIE, PA 16507	102
8	SEMSARCH	621 ft.	WAYNE STREET DUMP	EAST BAYFRONT RD - END OF, ERIE, PA 16501	103
8	SWF	621 ft.	WAYNE ST DUMP	PA	104
11	RST	636 ft.	HAMOT MED CTR	200 STATE ST, ERIE, PA 16550	110
13	FRSPA	628 ft.	MAYER BROTHERS CONSTRUCTION INC.	100 PEACH STREET, ERIE, PA 16550	133
16	AIRS	636 ft.	UPMC HAMOT/ERIE	201 STATE ST, ERIE, PA 16550	147
16	ECHOR03	636 ft.	UPMC HAMOT/ERIE	201 STATE ST, ERIE, PA 16550	149
16	FRSPA	636 ft.	UPMC HAMOT/ERIE	201 STATE ST, ERIE, PA 16550	150
16	FRSPA	636 ft.	UPMC HAMOT MEDICAL CTR	201 STATE ST, ERIE, PA 16550	151
16	FRSPA	636 ft.	HAMOT MED CTR/ERIE	201 STATE ST, ERIE, PA 16550	152
16	ICIS	636 ft.	HAMOT MEDICAL CENTER	201 STATE STREET, ERIE, PA 16550	153
16	MWO	636 ft.	UPMC HAMOT	ERIE COUNTY, ERIE, PA 16507	154
16	RCRAGR03	636 ft.	UPMC HAMOT MEDICAL CTR	201 STATE ST, ERIE, PA 16550	155
16	RST	636 ft.	HAMOT MED CTR	201 STATE ST, ERIE, PA 16550	157
16	SPILLS	636 ft.		201 STATE STREET PA 16501, PA	159
16	SWF	636 ft.	HAMOT MEDICAL CENTER - INCINERATOR	201 STATE ST, ERIE, PA 16550	160
17	RST	637 ft.	HEALTHSOUTH GREAT LAKES REHAB HOSP	143 E 2ND ST, ERIE, PA 16507	161
18	RCRANGR03	634 ft.	NIAGARA MACH	325 W FRONT ST, ERIE, PA 16507	162
19	LRST	635 ft.	PA SOLDIERS & SAILORS HOME	560 E 3RD ST, ERIE, PA 16512	164
19	RST	635 ft.	PA SOLDIERS & SAILORS HOME	560 E 3RD ST, ERIE, PA 16512	165
22	LRST	631 ft.	NFG ERIE SVC CTR	225 WAYNE ST, ERIE, PA 16507	175
22	RCRAGR03	631 ft.	NATIONAL FUEL GAS DISTR CO ERIE SVC CTR	225 WAYNE ST, ERIE, PA 16507	177
22	RST	631 ft.	NFG ERIE SVC CTR	225 WAYNE ST, ERIE, PA 16507	179
22	VCP	631 ft.	NATL FUEL GAS	225 WAYNE ST, ERIE, PA 16507	182
22	VCP	631 ft.	NATL FUEL GAS ERIE SVC CENTER	225 WAYNE ST, ERIE, PA 16507	183
23	RCRANGR03	628 ft.	MEDI-CENTER HOSPITAL	137 W 2ND ST, ERIE, PA 16503	184
24	RCRAGR03	645 ft.	FAMILY DOLLAR STORE NO 3779	856 E 6TH ST, ERIE, PA 16507	186
26	LRST	653 ft.	SIMON BLDG PROD	834 E 8TH ST, ERIE, PA 16503	194
26	RST	653 ft.	SIMON BLDG PROD	834 E 8TH ST, ERIE, PA 16503	195
28	LRST	650 ft.	ATLANTIC 0363 8756 CO OP 4047	954 E 6TH ST, ERIE, PA 16507	201
28	RST	650 ft.	ATLANTIC 0363 8756 CO OP 4047	954 E 6TH ST, ERIE, PA 16507	203
29	LRST	652 ft.	ERIE SCH DIST BUS GARAGE	857 E 9TH ST, ERIE, PA 16503	205
29	RST	652 ft.	ERIE SCH DIST BUS GARAGE	857 E 9TH ST, ERIE, PA 16503	206

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
30	RST	638 ft.	GERTRUDE A BARBER DR CTR	100 BARBER PL, ERIE, PA 16507	208
31	RST	645 ft.	FLANAGANS SVC	430 EAST AVE, ERIE, PA 16507	209
32	HISTPST	654 ft.		7TH & EAST STS, ERIE, PA	211
33	LRST	639 ft.	ERIE SPEED CHECK	209 E 6TH ST, ERIE, PA 16507	212
33	VCP	639 ft.	ERIE SPEED CHECK	209 E 6TH ST, ERIE, PA 16507	214
35	SEMSARCH	641 ft.	NORTH CREEK ROAD LANDFILL #70	606 W 2ND ST, ERIE, PA 16507	220
36	LRST	641 ft.	KWIK FILL M 8	1101 E LAKE RD, ERIE, PA 16500	221
37	LRST	661 ft.	EAST AVENUE SPEED CHECK	1001 EAST AVE, ERIE, PA 16503	224
38	LRST	645 ft.	HOLIDAY MART II	605 PARADE ST, ERIE, PA 16503	226
39	VCP	669 ft.	ERIE CITY IRON WORKS	12TH & EAST AVE, ERIE, PA 16510	228
40	RCRASUBC	663 ft.	AMER METER	920 PAYNE AVE, ERIE, PA 16512	229
41	RCRAC	677 ft.	ACCU RIDE ERIE LP	1015 E 12TH ST, ERIE, PA 16503	232
42	SHWS	686 ft.	ERIE RESISTOR SITE	PA	236

LOWER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	AIRS	580 ft.	DONJON SHIPBUILDING & REPAIR LLC/ERIE	220 E BAYFRONT PKWY, ERIE, PA 16507	26
1	AIRSAFS	580 ft.	DONJON SHIPBUILDING & REPAIR LLC/ERIE	220 E BAYFRONT PKWY, ERIE, PA 16507	28
1	BRS	580 ft.	DONJON SHIPBUILDING AND REPAIR	220 E BAYFRONT PKWY, ERIE, PA 16507	41
1	ECHOR03	580 ft.	DONJON SHIPBUILDING & REPAIR	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	48
1	ERNSPA	580 ft.		DON JOHN SHIPBUILDING 220 EAST BAYFRONT PKWY, ERIE, PA	49
1	ERNSPA	580 ft.	DONJON SHIPBUILDING REPAIR	220 E. BAYFRONT PKWY, ERIE, PA 16507	51
1	FRSPA	580 ft.	DONJON SHIPBUILDING & REPAIR	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	53
1	FRSPA	580 ft.	ERIE SHIPBUILDING, LLC	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	54
1	FRSPA	580 ft.	ERIE SHIPBUILDERS LLC	200 E. BAYFRONT PARKWAY, ERIE, PA 16507	55
1	FRSPA	580 ft.	DONJON SHIPBUILDING & REPAIR LLC/ERIE	220 E BAYFRONT PKWY, ERIE, PA 16507	56
1	FRSPA	580 ft.	DONJON SHIPBUILDING AND REPAIR, LLC	220 E. BAYFRONT PARKWAY, ERIE, PA 16507	57
1	ICIS	580 ft.	DONJON SHIPBUILDING & REPAIR LLC/ERIE	220 E BAYFRONT PKWY, ERIE, PA 16507	58
1	ICISNPDES	580 ft.	DONJON SHIPBUILDING AND REPAIR	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	59
1	NPDESR03	580 ft.	ERIE SHIPBUILDING LLC	220 EAST BAYFRONT PARKWAY, ERIE, PA 16507	61
1	RCRAGR03	580 ft.	DONJON SHIPBUILDING & REPAIR	220 E BAYFRONT PKWY, ERIE, PA 16507	62

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
2	AIRS	581 ft.	BLDG MATERIALS MFG CORP/ERIE	218 W BAYFRONT PKWY, ERIE, PA 16507	65
2	AIRS	581 ft.	GAF CORP/LAKEFRONT	SASSAFRAS ST, ERIE, PA 16512	66
2	AUL	581 ft.	ERIE CNTY CONVENTION CTR AUTH BAYFRONT SITE	218 W BAYFRONT PKWY, ERIE, PA 16507	67
2	ECHOR03	581 ft.	BUILDING MATERIALS MANUFACTURING CORP	218 WEST BAYFRONT PARKWAY, ERIE, PA 16507	68
2	ERNSPA	581 ft.		218 WEST BAYFRONT PKWY, ERIE, PA	69
2	ERNSPA	581 ft.		218 WEST BAY FRONT PARKWAY, ERIE, PA	71
2	FRSPA	581 ft.	BUILDING MATERIALS MANUFACTURING CORP	218 WEST BAYFRONT PARKWAY, ERIE, PA 16507	73
2	FRSPA	581 ft.	GAF BUILDING MATERIALS CORPORATION	FOOT OF SASSAFRASS STREET, ERIE, PA 16507	74
2	FRSPA	581 ft.	GAF CORP/LAKEFRONT	SASSAFRAS ST, ERIE, PA 16512	75
2	RCRANGR03	581 ft.	GAF BLDG MATERIALS	218 W BAYFRONT PKWY, ERIE, PA 16507	76
2	SEMSARCH	581 ft.	GAF CORP	FOOT OF SASSAFRAS ST, ERIE, PA 16507	78
2	SPILLS	581 ft.		218 W BAYFRONT PARKWAY PA 16507, PA	79
2	SPILLS	581 ft.		218 WEST BAYFRONT PARKWAY PA 16507, PA	80
2	SPILLS	581 ft.		218 WEST BAYFRONT HIGHWAY PA 16507, PA	81
2	TRI	581 ft.	BUILDING MATERIALS MANUFACTURING CORP	218 W BAYFRONT PKWY, ERIE, PA 16507	82
2	VCP	581 ft.	ERIE CNTY CONVENTION CTR AUTH BAYFRONT SITE	218 W BAYFRONT PKWY, ERIE, PA 16507	83
3	ERNSPA	582 ft.	BETWEEN THE SHERATON DOCKS AND PRESQUE ISLE YACHT CLUB DOCKS	120 WEST FRONT STREET, ERIE, PA	85
3	ERNSPA	582 ft.		120 W FRONT ST, ERIE, PA 16512	87
5	ECHOR03	584 ft.	HAMPTON INN - HARBOR PLACE	EAST FRONT STREET, ERIE, CITY OF, PA 16507	91
5	FRSPA	584 ft.	HAMPTON INN - HARBOR PLACE	EAST FRONT STREET, ERIE, CITY OF, PA 16507	92
5	LRST	584 ft.	FRONT STREET GENERATING STA	FRONT ST & STATE ST, ERIE, PA 16507	93
5	RST	584 ft.	FRONT STREET GENERATING STA	FRONT ST & STATE ST, ERIE, PA 16507	95
6	RST	598 ft.	BAYSHORE MARINE	133 E BAYFRONT ST, ERIE, PA 16507	98
7	AUL	581 ft.	CSX BAYFRONT SITE FMR	W SASSAFRAS ST-N BAYFRONT PKWY, ERIE, PA 16501	100
7	VCP	581 ft.	CSX BAYFRONT SITE FMR	W SASSAFRAS ST-N BAYFRONT PKWY, ERIE, PA 16501	101
9	ECHOR03	582 ft.	PHMC FLAGSHIP NIAGARA	164 E FRONT ST, ERIE, PA 16507	105
9	FRSPA	582 ft.	PHMC FLAGSHIP NIAGARA	164 E FRONT ST, ERIE, PA 16507	106
9	RCRAGR03	582 ft.	PHMC FLAGSHIP NIAGARA	164 E FRONT ST, ERIE, PA 16507	107
10	UIC	577 ft.	ERIE SAND & GRAVEL CO 1	ERIE COUNTY, ERIE, PA 16507	109
12	ECHOR03	592 ft.	CHESTNUT FILTRATION PLANT	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	111

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
12	ERNSPA	592 ft.		340 WEST BAYFRONT PWY, ERIE, PA 16507	112
12	FRSPA	592 ft.	CHESTNUT FILTRATION PLANT	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	114
12	FRSPA	592 ft.	CHESTNUT ST TREATMENT PLANT	340 W BAYFRONT PARKWAY, ERIE, PA 16507	115
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-CHESTNUT STREET PLNT	340 W. BAYFRONT PKWY., ERIE, PA 16507	116
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-SIGSBEE PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	117
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-E LAKE TANK PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	118
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-CAMPHAUSEN PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	119
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-MCKEAN TAKE POINT	340 W. BAYFRONT PKWY., ERIE, PA 16507	120
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-STATION RD PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	121
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-KUHL RD TANK PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	122
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-E LAKE PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	123
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-JOHNSON PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	124
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-DEPOT RD PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	125
12	FRSPA	592 ft.	ERIE CITY WATER AUTHORITY-CHERRY PS PLANT	340 W. BAYFRONT PKWY., ERIE, PA 16507	126
12	FRSPA	592 ft.	MCKEAN TWP WATERWORKS-RT 99 TP BOOSTER	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	127
12	ICIS	592 ft.	ERIE WATER WORKS CHESTNUT FILTRATION PLANT	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	128
12	ICISNPDES	592 ft.	CHESTNUT ST TREATMENT PLANT	340 W BAYFRONT PARKWAY, ERIE, PA 16507	129
12	NPDESRO3	592 ft.	ERIE CITY WATER AUTH	340 WEST BAYFRONT PARKWAY, ERIE, PA 16507	131
12	RCRAGR03	592 ft.	ERIE CITY WATER AUTH	340 W BAYFRONT PKWY, ERIE, PA 16507	132
14	AIRS	582 ft.	PENELEC/FRONT ST	FRONT ST, ERIE, PA 16507	134
14	ECHOR03	582 ft.	PENELEC FRONT ST STATION	124 FRONT STREET, ERIE, PA 16507	135
14	FRSPA	582 ft.	PENELEC FRONT ST STATION	124 FRONT STREET, ERIE, PA 16507	136
14	FRSPA	582 ft.	PENELEC FRONT ST STATION	124 FRONT ST, ERIE, PA 16507	137
14	FRSPA	582 ft.	PENELEC/FRONT ST	FRONT ST, ERIE, PA 16507	138
14	PADS	582 ft.	PENELEC FRONT STREET STN	FRONT AND STATE STS, ERIE, PA 16507	139
14	RCRANGR03	582 ft.	PENELEC FRONT ST STATION	124 FRONT ST, ERIE, PA 16507	140
14	SEMSARCH	582 ft.	PENELEC-FRONT STREET	FRONT ST, ERIE, PA 16507	142
14	VCP	582 ft.	GPU FRONT ST STA PENELEC	FRONT ST, ERIE, PA 16511	143
15	ERNSPA	575 ft.		UNITED ERIE FACILITY, ERIE, PA	145
20	LRST	575 ft.	ERIE SAND & GRAVEL CO	FOOT OF SASSAFRAS ST, ERIE, PA 16507	167

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
20	RCRAGR03	575 ft.	ERIE SAND & GRAVEL	2 E BAY DR/PORT ACCESS RD, ERIE, PA 16507	168
20	RST	575 ft.	ERIE SAND & GRAVEL CO	FOOT OF SASSAFRAS ST, ERIE, PA 16507	170
20	RST	575 ft.	ERIE SAND & GRAVEL	2 E BAY DR, ERIE, PA 16507	172
20	RST	575 ft.	ERIE INTL MARINE TERM	2 E BAY DR, ERIE, PA 16507	173
21	RST	592 ft.	ERIE CITY SOMMERHEIN DR	FOOT OF CHESTNUT ST, ERIE, PA 16507	174
25	LRST	586 ft.	ERIE WWTP	68 PORT ACCESS RD, ERIE, PA 16507	188
25	MWO	586 ft.	ERIE CITY STP	ERIE COUNTY, ERIE, PA 16507	189
25	RST	586 ft.	ERIE WWTP	68 PORT ACCESS RD, ERIE, PA 16507	190
25	RST	586 ft.	CITY OF ERIE WWTP	68 PORT ACCESS RD, ERIE, PA 16507	193
27	LRST	575 ft.	MCALLISTER MARINA	E BAY FRONT, ERIE, PA 16507	196
27	RST	575 ft.	MCALLISTER MARINA	E BAY FRONT, ERIE, PA 16507	197
27	RST	575 ft.	ERIE CONVENTION CTR HOTEL PARKING GARAGE	4 STATE ST, ERIE, PA 16507	200
34	RCRASUBC	588 ft.	ERIE COKE	EAST AVE, ERIE, PA 16512	215
34	RCRAT	588 ft.	ERIE COKE	EAST AVE, ERIE, PA 16512	217
34	SEMSARCH	588 ft.	ERIE COKE CORP	FOOT OF EAST ST, ERIE, PA 16501	219

Air Permitted Facilities (AIRS)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 545005AIRS
PRIMARY FACILITY ID#: 545005
PRIMARY FACILITY (PF) NAME: DONJON SHIPBUILDING &
REPAIR LLC/ERIE
ADDRESS: 220 E BAYFRONT PKWY
ERIE, PA 16507-2402
COUNTY: ERIE
STATUS: ACTIVE

AQ PERMIT(S)

AQ PERMIT ID:
AUTHORIZATION ID: 1191165
CURRENT PERMIT IND:
TITLE V IND:
ACTIVE IND:

AQ SITE(S)

MUNICIPALITY NAME: ERIE
MUNICIPALITY TYPE: CITY
ACTIVE IND: YES
NAICS CODE: 336611
NAICS DESCRIPTION: SHIP BUILDING AND
REPAIRING

SITE EMISSIONS

CO TPY: 0
NOx TPY: 0
PART TPY: NOT REPORTED
PM10 TPY: 181.343
PM2.5 TPY: 0.14
SOx TPY: 0
VOC TPY: 64.2852

SITE EMISSIONS FOR A GIVEN YEAR

PRODUCTION REPORT IND: YES
ACTIVE IND: YES
TITLE V IND: NOT REPORTED
YEAR: 2014
CO TPY: 0
NOx TPY: 0.0000
PART TPY: NOT REPORTED
PM10 TPY: 8.5000
PM2.5 TPY: 0.1400

Air Permitted Facilities (AIRS)

SOx TPY: **0.0000**

VOC TPY: **3.0500**

[Back to Report Summary](#)

Aerometric Information Retrieval System / Air Facility Subsystem (AIRSAFS)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

SITE INFORMATION

UNIQUE ID: 1014165

PLANT ID: 1014165

NAME: DONJON SHIPBUILDING & REPAIR LLC/ERIE

ADDRESS: 220 E BAYFRONT PKWY
ERIE, PA 16507-2402

CLASSIFICATION: **POTENTIAL EMISSIONS ARE BELOW ALL APPLICABLE MAJOR SOURCE ENFORCEABLE REGULATIONS OR LIMITATIONS.**

OPERATION STATUS: **OPERATING**

STATE COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

FACILITY TYPE: **PRIVATELY OWNED/OPERATED**

CURRENT HIGH PRIORITY VIOLATOR: **NOT REPORTED**

SIC DESCRIPTION: **ESTABLISHMENTS PRIMARILY ENGAGED IN BUILDING AND REPAIRING SHIPS, BARGES, AND LIGHTERS, WHETHER SELF-PROPELLED OR TOWED BY OTHER CRAFT.**

ENFORCEMENT ACTIONS

DATE ACHIEVED: **05/07/2014**

DATE RECORDED: **05/20/2014**

NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**

ALL AIR PROGRAM: **SIP SOURCE**

RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**

POLLUTANT: **NOT REPORTED**

ALL POLLUTION IN VIOLATION: **NOT REPORTED**

TYPE OF VIOLATION(S): **NOT REPORTED**

PENALTY AMOUNT: **0**

DATE ACHIEVED: **04/01/2014**

DATE RECORDED: **05/15/2014**

NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**

ALL AIR PROGRAM: **SIP SOURCE**

RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**

POLLUTANT: **NOT REPORTED**

ALL POLLUTION IN VIOLATION: **NOT REPORTED**

TYPE OF VIOLATION(S): **NOT REPORTED**

PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/07/2014**

DATE RECORDED: **03/20/2014**

NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**

ALL AIR PROGRAM: **SIP SOURCE**

RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**

POLLUTANT: **NOT REPORTED**

ALL POLLUTION IN VIOLATION: **NOT REPORTED**

TYPE OF VIOLATION(S): **NOT REPORTED**

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

PENALTY AMOUNT: 0

DATE ACHIEVED: 05/30/2013
DATE RECORDED: 06/07/2013
NATIONAL ACTION TYPE: STATE PCE/OFF-SITE
ALL AIR PROGRAM: SIP SOURCE
RESULTS OF STACK TEST AND TITLE V: NOT REPORTED
POLLUTANT: NOT REPORTED
ALL POLLUTION IN VIOLATION: NOT REPORTED
TYPE OF VIOLATION(S): NOT REPORTED
PENALTY AMOUNT: 0

DATE ACHIEVED: 03/12/2013
DATE RECORDED: 03/22/2013
NATIONAL ACTION TYPE: STATE CONDUCTED FCE/ON-SITE
ALL AIR PROGRAM: SIP SOURCE
RESULTS OF STACK TEST AND TITLE V: NOT REPORTED
POLLUTANT: NOT REPORTED
ALL POLLUTION IN VIOLATION: NOT REPORTED
TYPE OF VIOLATION(S): NOT REPORTED
PENALTY AMOUNT: 0

DATE ACHIEVED: 02/14/2013
DATE RECORDED: 03/08/2013
NATIONAL ACTION TYPE: STATE NOV ISSUED
ALL AIR PROGRAM: SIP SOURCE
RESULTS OF STACK TEST AND TITLE V: ACTION ACHIEVED
POLLUTANT: NOT REPORTED
ALL POLLUTION IN VIOLATION: NOT REPORTED
TYPE OF VIOLATION(S): NOT REPORTED
PENALTY AMOUNT: 0

DATE ACHIEVED: 02/12/2013
DATE RECORDED: 02/22/2013
NATIONAL ACTION TYPE: STATE PCE/ON-SITE
ALL AIR PROGRAM: SIP SOURCE
RESULTS OF STACK TEST AND TITLE V: NOT REPORTED
POLLUTANT: NOT REPORTED
ALL POLLUTION IN VIOLATION: NOT REPORTED
TYPE OF VIOLATION(S): NOT REPORTED
PENALTY AMOUNT: 0

DATE ACHIEVED: 09/12/2012
DATE RECORDED: 10/04/2012
NATIONAL ACTION TYPE: STATE PCE/ON-SITE
ALL AIR PROGRAM: SIP SOURCE

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **05/25/2012**
DATE RECORDED: **12/20/2012**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **04/18/2012**
DATE RECORDED: **10/04/2012**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/13/2012**
DATE RECORDED: **09/06/2012**
NATIONAL ACTION TYPE: **STATE NOV ISSUED**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/13/2012**
DATE RECORDED: **09/06/2012**
NATIONAL ACTION TYPE: **STATE NOV ISSUED**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

DATE ACHIEVED: **03/07/2012**
DATE RECORDED: **03/22/2012**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **02/16/2012**
DATE RECORDED: **03/22/2012**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **07/25/2011**
DATE RECORDED: **03/09/2012**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **07/06/2011**
DATE RECORDED: **03/09/2012**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **04/05/2011**
DATE RECORDED: **12/20/2012**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **08/03/2010**
DATE RECORDED: **08/10/2010**
NATIONAL ACTION TYPE: **STATE ADMINISTRATIVE ORDER ISSUED**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **1000**

DATE ACHIEVED: **06/14/2010**
DATE RECORDED: **12/20/2012**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **05/27/2010**
DATE RECORDED: **08/19/2010**
NATIONAL ACTION TYPE: **STATE NOV ISSUED**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/23/2010**
DATE RECORDED: **08/19/2010**
NATIONAL ACTION TYPE: **STATE NOV ISSUED**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/22/2010**
DATE RECORDED: **06/02/2010**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/22/2010**
DATE RECORDED: **04/01/2010**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **08/27/2009**
DATE RECORDED: **09/03/2009**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **07/21/2009**
DATE RECORDED: **08/20/2009**
NATIONAL ACTION TYPE: **PERMIT ON-SITE PCE (STATE)**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/16/2009**
DATE RECORDED: **12/20/2012**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

DATE ACHIEVED: **09/19/2008**
DATE RECORDED: **10/02/2008**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **05/06/2008**
DATE RECORDED: **05/13/2008**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **10/17/2007**
DATE RECORDED: **10/02/2008**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **08/09/2007**
DATE RECORDED: **08/22/2007**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/14/2007**
DATE RECORDED: **04/12/2007**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/12/2007**
DATE RECORDED: **04/12/2007**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **08/09/2006**
DATE RECORDED: **09/08/2006**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/09/2005**
DATE RECORDED: **04/09/2005**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **02/28/2005**
DATE RECORDED: **09/03/2009**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **01/19/2005**
DATE RECORDED: **05/14/2005**

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **06/29/2004**
DATE RECORDED: **08/07/2004**
NATIONAL ACTION TYPE: **STATE PCE/OFF-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/11/2004**
DATE RECORDED: **03/15/2004**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **10/10/2003**
DATE RECORDED: **02/09/2004**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **07/30/2002**
DATE RECORDED: **09/12/2003**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **NOT REPORTED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

Aerometric Information Retrieval System / Air Facility Subsystem (AIRSAFS)

AIR PROGRAM

AIR PROGRAM STATUS: **OPERATING**

EPA COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

POLLUTANT COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

POLLUTANT: **FACILITY-WIDE PERMIT REQUIREMENTS**

HISTORICAL COMPLIANCE AIR PROGRAM LEVEL

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1202**

HISTORICAL COMPLIANCE STATUS: **IN VIOLATION - UNKNOWN WITH REGARD TO SCHEDULE**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **0704**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **0903**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1301**

HISTORICAL COMPLIANCE STATUS: **IN VIOLATION - UNKNOWN WITH REGARD TO SCHEDULE**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1401**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1002**

HISTORICAL COMPLIANCE STATUS: **IN VIOLATION - UNKNOWN WITH REGARD TO SCHEDULE**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1303**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1004**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1001**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

Aerometric Information Retrieval System / Air Facility Subsystem (AIRSAFS)

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0801**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0802**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0604**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0902**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0702**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0701**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1003**
HISTORICAL COMPLIANCE STATUS: **IN VIOLATION - UNKNOWN WITH REGARD TO SCHEDULE**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1304**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1204**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0901**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0804**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1103**

Aerometric Information Retrieval System / Air Facility Subsystem (AIRSAFS)

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1203**

HISTORICAL COMPLIANCE STATUS: **IN VIOLATION - UNKNOWN WITH REGARD TO SCHEDULE**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **0703**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1201**

HISTORICAL COMPLIANCE STATUS: **IN VIOLATION - UNKNOWN WITH REGARD TO SCHEDULE**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1101**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1104**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1102**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1402**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1302**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **0803**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **0904**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1403**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

**Aerometric Information Retrieval System / Air Facility Subsystem
(AIRSAFS)**

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Biennial Reporting System (BRS)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

HANDLER IDENTIFICATION: PAD987353281

SITENAME: DONJON SHIPBUILDING AND REPAIR

ADDRESS: 220 E BAYFRONT PKWY
ERIE, PA 16507

REPORTED YEARS: 2015, 2013

LAST REPORTED YEAR 2015

BR SEARCH RESULTS FOR LAST REPORTED YEAR: [CLICK HERE](#)

FEDERAL GENERATOR STATUS:

REPORTED YEAR: 2015

GENERATOR STATUS: FEDERAL - SQG

REPORTED YEAR: 2013

GENERATOR STATUS: FEDERAL - SQG

WASTE INFORMATION

REPORTED YEAR: 2015

MANAGEMENT LOCATION: OFFSITE

MANAGEMENT DESCRIPTION:

H141 - THE SITE RECEIVING THIS WASTE STORED/BULKED AND TRANSFERRED THE WASTE WITH NO TREATMENT OR RECOVERY (H010-H129), FUEL BLENDING (H061), OR DISPOSAL (H131-H135) AT THAT RECEIVING SITE. DO NOT USE THIS CODE ON GM FORM IN SECTION 1- ITEM D OR IN SECTION 2.

GENERATOR ID INCLUDED IN NBR: YES

GENERATOR WASTE STREAM INCLUDED IN NBR: YES

QUANTITY GENERATED IN TONS: 2.525

MANAGER ID INCLUDED IN NBR: NO

MANAGER WASTE STREAM INCLUDED IN NBR: NO

QUANTITY MANAGED IN TONS: 0

SHIPPER ID INCLUDED IN NBR: YES

SHIPPER WASTE STREAM INCLUDED IN NBR: YES

SHIPPER ID: PAD987353281

SHIPPER STATE: PENNSYLVANIA

QUANTITY SHIPPED IN TONS: 2.525

RECEIVER ID INCLUDED IN NBR: NO

RECEIVER WASTE STREAM INCLUDED IN NBR: NO

RECEIVER ID: NJD002200046

RECEIVER STATE: NEW JERSEY

QUANTITY RECEIVED IN TONS: 0

FEDERAL WASTE: YES

WASTEWATER CHARACTERISTIC INDICATOR: NO

WASTE DESCRIPTION SIC: 336611 -

REPORTED YEAR: 2015

Biennial Reporting System (BRS)

MANAGEMENT LOCATION: **OFFSITE**

MANAGEMENT DESCRIPTION:

H110 -

GENERATOR ID INCLUDED IN NBR: **YES**

GENERATOR WASTE STREAM INCLUDED IN NBR: **YES**

QUANTITY GENERATED IN TONS: **1.615**

MANAGER ID INCLUDED IN NBR: **NO**

MANAGER WASTE STREAM INCLUDED IN NBR: **NO**

QUANTITY MANAGED IN TONS: **0**

SHIPPER ID INCLUDED IN NBR: **YES**

SHIPPER WASTE STREAM INCLUDED IN NBR: **YES**

SHIPPER ID: **PAD987353281**

SHIPPER STATE: **PENNSYLVANIA**

QUANTITY SHIPPED IN TONS: **1.615**

RECEIVER ID INCLUDED IN NBR: **NO**

RECEIVER WASTE STREAM INCLUDED IN NBR: **NO**

RECEIVER ID: **MID980991566**

RECEIVER STATE: **MICHIGAN**

QUANTITY RECEIVED IN TONS: **0**

FEDERAL WASTE: **YES**

WASTEWATER CHARACTERISTIC INDICATOR: **YES**

WASTE DESCRIPTION SIC: **336611 -**

REPORTED YEAR: **2013**

MANAGEMENT LOCATION: **OFFSITE**

MANAGEMENT DESCRIPTION:

H110 -

GENERATOR ID INCLUDED IN NBR: **YES**

GENERATOR WASTE STREAM INCLUDED IN NBR: **YES**

QUANTITY GENERATED IN TONS: **.8**

MANAGER ID INCLUDED IN NBR: **NO**

MANAGER WASTE STREAM INCLUDED IN NBR: **NO**

QUANTITY MANAGED IN TONS: **0**

SHIPPER ID INCLUDED IN NBR: **YES**

SHIPPER WASTE STREAM INCLUDED IN NBR: **YES**

SHIPPER ID: **PAD987353281**

SHIPPER STATE: **PENNSYLVANIA**

QUANTITY SHIPPED IN TONS: **.8**

RECEIVER ID INCLUDED IN NBR: **NO**

RECEIVER WASTE STREAM INCLUDED IN NBR: **NO**

RECEIVER ID: **MID000724831**

RECEIVER STATE: **MICHIGAN**

QUANTITY RECEIVED IN TONS: **0**

FEDERAL WASTE: **YES**

WASTEWATER CHARACTERISTIC INDICATOR: **NO**

WASTE DESCRIPTION SIC: **336611 -**

Biennial Reporting System (BRS)

REPORTED YEAR: 2013

MANAGEMENT LOCATION: OFFSITE

MANAGEMENT DESCRIPTION:

H110 -

GENERATOR ID INCLUDED IN NBR: YES

GENERATOR WASTE STREAM INCLUDED IN NBR: YES

QUANTITY GENERATED IN TONS: 1

MANAGER ID INCLUDED IN NBR: NO

MANAGER WASTE STREAM INCLUDED IN NBR: NO

QUANTITY MANAGED IN TONS: 0

SHIPPER ID INCLUDED IN NBR: YES

SHIPPER WASTE STREAM INCLUDED IN NBR: YES

SHIPPER ID: PAD987353281

SHIPPER STATE: PENNSYLVANIA

QUANTITY SHIPPED IN TONS: 1

RECEIVER ID INCLUDED IN NBR: NO

RECEIVER WASTE STREAM INCLUDED IN NBR: NO

RECEIVER ID: OHD980568992

RECEIVER STATE: OHIO

QUANTITY RECEIVED IN TONS: 0

FEDERAL WASTE: YES

WASTEWATER CHARACTERISTIC INDICATOR: NO

WASTE DESCRIPTION SIC: 336611 -

REPORTED YEAR: 2013

MANAGEMENT LOCATION: OFFSITE

MANAGEMENT DESCRIPTION:

H061 - FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE (WASTE GENERATED EITHER ON-SITE OR RECEIVED FROM OFF-SITE)

GENERATOR ID INCLUDED IN NBR: YES

GENERATOR WASTE STREAM INCLUDED IN NBR: YES

QUANTITY GENERATED IN TONS: .2

MANAGER ID INCLUDED IN NBR: NO

MANAGER WASTE STREAM INCLUDED IN NBR: NO

QUANTITY MANAGED IN TONS: 0

SHIPPER ID INCLUDED IN NBR: YES

SHIPPER WASTE STREAM INCLUDED IN NBR: YES

SHIPPER ID: PAD987353281

SHIPPER STATE: PENNSYLVANIA

QUANTITY SHIPPED IN TONS: .2

RECEIVER ID INCLUDED IN NBR: NO

RECEIVER WASTE STREAM INCLUDED IN NBR: NO

RECEIVER ID: MID980615298

RECEIVER STATE: MICHIGAN

QUANTITY RECEIVED IN TONS: 0

FEDERAL WASTE: YES

WASTEWATER CHARACTERISTIC INDICATOR: NO

Biennial Reporting System (BRS)

WASTE DESCRIPTION SIC: 336611 -

REPORTED YEAR: 2013

MANAGEMENT LOCATION: OFFSITE

MANAGEMENT DESCRIPTION:

H141 - THE SITE RECEIVING THIS WASTE STORED/BULKED AND TRANSFERRED THE WASTE WITH NO TREATMENT OR RECOVERY (H010-H129), FUEL BLENDING (H061), OR DISPOSAL (H131-H135) AT THAT RECEIVING SITE. DO NOT USE THIS CODE ON GM FORM IN SECTION 1- ITEM D OR IN SECTION 2.

GENERATOR ID INCLUDED IN NBR: YES

GENERATOR WASTE STREAM INCLUDED IN NBR: YES

QUANTITY GENERATED IN TONS: .95

MANAGER ID INCLUDED IN NBR: NO

MANAGER WASTE STREAM INCLUDED IN NBR: NO

QUANTITY MANAGED IN TONS: 0

SHIPPER ID INCLUDED IN NBR: YES

SHIPPER WASTE STREAM INCLUDED IN NBR: YES

SHIPPER ID: PAD987353281

SHIPPER STATE: PENNSYLVANIA

QUANTITY SHIPPED IN TONS: .95

RECEIVER ID INCLUDED IN NBR: NO

RECEIVER WASTE STREAM INCLUDED IN NBR: NO

RECEIVER ID: NJD002200046

RECEIVER STATE: NEW JERSEY

QUANTITY RECEIVED IN TONS: 0

FEDERAL WASTE: YES

WASTEWATER CHARACTERISTIC INDICATOR: NO

WASTE DESCRIPTION SIC: 336611 -

REPORTED YEAR: 2013

MANAGEMENT LOCATION: OFFSITE

MANAGEMENT DESCRIPTION:

H141 - THE SITE RECEIVING THIS WASTE STORED/BULKED AND TRANSFERRED THE WASTE WITH NO TREATMENT OR RECOVERY (H010-H129), FUEL BLENDING (H061), OR DISPOSAL (H131-H135) AT THAT RECEIVING SITE. DO NOT USE THIS CODE ON GM FORM IN SECTION 1- ITEM D OR IN SECTION 2.

GENERATOR ID INCLUDED IN NBR: YES

GENERATOR WASTE STREAM INCLUDED IN NBR: YES

QUANTITY GENERATED IN TONS: .6

MANAGER ID INCLUDED IN NBR: NO

MANAGER WASTE STREAM INCLUDED IN NBR: NO

QUANTITY MANAGED IN TONS: 0

SHIPPER ID INCLUDED IN NBR: YES

SHIPPER WASTE STREAM INCLUDED IN NBR: YES

SHIPPER ID: PAD987353281

SHIPPER STATE: PENNSYLVANIA

QUANTITY SHIPPED IN TONS: .6

RECEIVER ID INCLUDED IN NBR: NO

RECEIVER WASTE STREAM INCLUDED IN NBR: NO

Biennial Reporting System (BRS)

RECEIVER ID: **MID980615298**
RECEIVER STATE: **MICHIGAN**
QUANTITY RECEIVED IN TONS: **0**
FEDERAL WASTE: **YES**
WASTEWATER CHARACTERISTIC INDICATOR: **NO**
WASTE DESCRIPTION SIC: **336611 -**

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM CODES:

NAICS CODE DESCRIPTION:
336611 - SHIP BUILDING AND REPAIRING

EPA HAZARDOUS WASTE CODES:

REPORTED YEAR: **2015**
EPA HAZARDOUS WASTE CODE DESCRIPTION: **D001 - IGNITABLE WASTE**

REPORTED YEAR: **2015**
EPA HAZARDOUS WASTE CODE DESCRIPTION: **D002 - CORROSIVE WASTE**

REPORTED YEAR: **2015**
EPA HAZARDOUS WASTE CODE DESCRIPTION: **D003 - REACTIVE WASTE**

REPORTED YEAR: **2015**
EPA HAZARDOUS WASTE CODE DESCRIPTION: **D005 - BARIUM**

REPORTED YEAR: **2015**
EPA HAZARDOUS WASTE CODE DESCRIPTION: **D035 - METHYL ETHYL KETONE**

REPORTED YEAR: **2015**
EPA HAZARDOUS WASTE CODE DESCRIPTION: **F003 - 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 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.**

REPORTED YEAR: **2015**
EPA HAZARDOUS WASTE CODE DESCRIPTION: **F005 - 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.**

REPORTED YEAR: **2013**

Biennial Reporting System (BRS)

EPA HAZARDOUS WASTE CODE DESCRIPTION: **D001 - IGNITABLE WASTE**

REPORTED YEAR: **2013**

EPA HAZARDOUS WASTE CODE DESCRIPTION: **D005 - BARIUM**

REPORTED YEAR: **2013**

EPA HAZARDOUS WASTE CODE DESCRIPTION: **D007 - CHROMIUM**

REPORTED YEAR: **2013**

EPA HAZARDOUS WASTE CODE DESCRIPTION: **D008 - LEAD**

REPORTED YEAR: **2013**

EPA HAZARDOUS WASTE CODE DESCRIPTION: **D035 - METHYL ETHYL KETONE**

REPORTED YEAR: **2013**

EPA HAZARDOUS WASTE CODE DESCRIPTION: **F002 - THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFUROMETHANE, 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.**

REPORTED YEAR: **2013**

EPA HAZARDOUS WASTE CODE DESCRIPTION: **F003 - 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 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.**

REPORTED YEAR: **2013**

EPA HAZARDOUS WASTE CODE DESCRIPTION: **F005 - 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.**

WASTE INFORMATION:

REPORTED YEAR: **2015**

SOURCE CODE DESCRIPTION:

G11 - DISCARDING OFF-SPECIFICATION, OUT-OF-DATE, AND/OR UNUSED CHEMICALS OR PRODUCTS

FORM CODE DESCRIPTION:

W113 - OTHER AQUEOUS WASTE OR WASTEWATERS

WASTE MINIMIZATION CODE DESCRIPTION:

Biennial Reporting System (BRS)

X - NO WASTE MINIMIZATION EFFORTS WERE IMPLEMENTED FOR THIS WASTE

REPORTED YEAR: **2015**

SOURCE CODE DESCRIPTION:

G06 - PAINTING AND COATING (MANUFACTURING, BUILDING, OR MAINTENANCE)

FORM CODE DESCRIPTION:

W406 - NOT REPORTED

WASTE MINIMIZATION CODE DESCRIPTION:

A - NOT REPORTED

REPORTED YEAR: **2013**

SOURCE CODE DESCRIPTION:

G06 - PAINTING AND COATING (MANUFACTURING, BUILDING, OR MAINTENANCE)

FORM CODE DESCRIPTION:

W406 - NOT REPORTED

WASTE MINIMIZATION CODE DESCRIPTION:

A - NOT REPORTED

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Enforcement and Compliance History Information (ECHOR03)

[MAP ID# 1](#)

Distance from Property: 0 mi. (0 ft.) X

Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: 110007789394

REGISTRY ID: 110007789394

NAME: DONJON SHIPBUILDING & REPAIR

ADDRESS: 220 EAST BAYFRONT PARKWAY

ERIE, PA 16507

COUNTY: ERIE

FACILITY LINK: [Facility Detail Report](#)

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Emergency Response Notification System (ERNSPA)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

GSID#: 1199862
NRC REPORT #: 1199862
INCIDENT LOCATION: NOT REPORTED
INCIDENT ADDRESS: DON JOHN SHIPBUILDING 220 EAST BAYFRONT PKWY
ERIE, PA
INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 1199862
DESCRIPTION OF INCIDENT: CALLER REPORTS A DISCHARGE OF AN UNKNOWN AMOUNT OF LUBE OIL (OMALA 150)
CAUSED BY AN UNKNOWN EQUIPMENT FAILURE (POSSIBLE PORT Z DRIVE UNIT SEAL) ON A VESSEL AT A DOCK.
TYPE OF INCIDENT: VESSEL
CAUSE: EQUIPMENT FAILURE
DATE/TIME: 12/17/2017 12:15
DISCOVERED/OCCURED/PLANNED: OCCURRED
POTENTIAL FLAG: NO

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 1199862
DATE/TIME RECEIVED: 12/17/2017 12:47
DATE/TIME COMPLETE: 12/17/2017 13:00
CALL TYPE: INCIDENT
SOURCE: TELEPHONE
RESPONSIBLE COMPANY: INTERLAKE STEAMSHIP COMPANY
ADDRESS: ADDRESS NOT REPORTED
MIDDLEBURG HIEGHTS OH 44130
RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

INCIDENT DETAILS

NRC REPORT #: 1199862
FIRE INVOLVED: NO
EVACUATION RADIUS: NOT REPORTED
ANY INJURIES: NO
ANY EVACUATIONS: NO
ANY FATALITIES: NO
ANY DAMAGES: NO
DAMAGE AMOUNT: NOT REPORTED
MEDIUM DESCRIPTION: WATER
ADDITIONAL MEDIUM INFO: PRESQUE ISLE BAY
BODY OF WATER: PRESQUE ISLE BAY
TRIBUTARY OF: LAKE ERIE
RELEASE SECURED: YES
ESTIMATED DURATION OF RELEASE: NOT REPORTED
RELEASE RATE: NOT REPORTED
REMEDIAL ACTION: CALLER REPORTS THE SHEEN IS CONTAINED WITHIN AN OIL BOOM, AND IS NATURALLY DISSIPATING,
ABSORBANT PADS WILL BE UTILIZED.

Emergency Response Notification System (ERNSPA)

STATE AGENCY ON SCENE: **NOT REPORTED**
STATE AGENCY REPORT #: **NOT REPORTED**
OTHER AGENCY NOTIFIED: **NOT REPORTED**
WATER SUPPLY CONTAMINATED: **UNKNOWN**
COMMUNITY IMPACT: **NOT REPORTED**
ADDITIONAL INFO: **NOT REPORTED**
STATE AGENCY NOTIFIED: **NOT REPORTED**
FEDERAL AGENCY NOTIFIED: **USCG MSU CLEVELAND**
OFFSHORE: **NO**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- NO INFORMATION REPORTED -

MATERIALS INVOLVED

NRC REPORT #: **1199862**
CHRIS CODE: **OLB**
CAS #: **000000-00-0**
MATERIAL RELEASED/AMOUNT: **OIL, MISC: LUBRICATING / UNKNOWN AMOUNT**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **UNKNOWN AMOUNT**

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

TRAINS DETAILS

- NO TRAIN DETAILS REPORTED -

TRAIN DERAILED UNITS

- NO TRAIN DERAILED UNITS REPORTED -

VESSEL DETAILS

- NO VESSEL DETAILS REPORTED -

MOBILE DETAILS

- NO MOBILE DETAILS REPORTED -

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Emergency Response Notification System (ERNSPA)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

GSID#: 1220644
NRC REPORT #: 1220644
INCIDENT LOCATION: DONJON SHIPBUILDING REPAIR
INCIDENT ADDRESS: 220 E. BAYFRONT PKWY
ERIE, PA 16507
INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 1220644
DESCRIPTION OF INCIDENT: CALLER STATED WHILE BUILDING A DREDGE 150 GALLONS OF BIO-DEGRADABLE HYDRAULIC FLUID RELEASED FROM A HYDRAULIC PUMP ON THE BARGE THAT MALFUNCTIONED.
TYPE OF INCIDENT: VESSEL
CAUSE: EQUIPMENT FAILURE
DATE/TIME: 8/6/2018 5:30
DISCOVERED/OCCURED/PLANNED: OCCURRED
POTENTIAL FLAG: NO

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 1220644
DATE/TIME RECEIVED: 8/6/2018 9:05
DATE/TIME COMPLETE: 8/6/2018 9:13
CALL TYPE: INCIDENT
SOURCE: TELEPHONE
RESPONSIBLE COMPANY: DONJON SHIPBUILDING REPAIR
ADDRESS: ADDRESS NOT REPORTED
ERIE PA 16507
RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

INCIDENT DETAILS

NRC REPORT #: 1220644
FIRE INVOLVED: NO
EVACUATION RADIUS: NOT REPORTED
ANY INJURIES: NO
ANY EVACUATIONS: NO
ANY FATALITIES: NO
ANY DAMAGES: NO
DAMAGE AMOUNT: NOT REPORTED
MEDIUM DESCRIPTION: WATER
ADDITIONAL MEDIUM INFO: NOT REPORTED
BODY OF WATER: BOOMED AREA AT DRY DOCK
TRIBUTARY OF: NOT REPORTED
RELEASE SECURED: YES
ESTIMATED DURATION OF RELEASE: NOT REPORTED
RELEASE RATE: NOT REPORTED
REMEDIAL ACTION: TWO BOOMS ARE IN PLACE, SWEEPERS ARE PERFORMING CLEAN UP AT THIS TIME.
STATE AGENCY ON SCENE: NOT REPORTED

Emergency Response Notification System (ERNSPA)

STATE AGENCY REPORT #: **NOT REPORTED**
OTHER AGENCY NOTIFIED: **NOT REPORTED**
WATER SUPPLY CONTAMINATED: **UNKNOWN**
COMMUNITY IMPACT: **NOT REPORTED**
ADDITIONAL INFO: **NOT REPORTED**
STATE AGENCY NOTIFIED: **NOT REPORTED**
FEDERAL AGENCY NOTIFIED: **NOT REPORTED**
OFFSHORE: **NO**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- **NO INFORMATION REPORTED** -

MATERIALS INVOLVED

NRC REPORT #: **1220644**
CHRIS CODE: **OHY**
CAS #: **000000-00-0**
MATERIAL RELEASED/AMOUNT: **HYDRAULIC OIL / 150 GALLON(S)**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **150 GALLON(S)**

OTHER MATERIALS INVOLVED

- **NO OTHER MATERIALS INVOLVED** -

TRAINS DETAILS

- **NO TRAIN DETAILS REPORTED** -

TRAIN DERAILED UNITS

- **NO TRAIN DERAILED UNITS REPORTED** -

VESSEL DETAILS

- **NO VESSEL DETAILS REPORTED** -

MOBILE DETAILS

- **NO MOBILE DETAILS REPORTED** -

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Facility Registry System (FRSPA)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110007789394

NAME: DONJON SHIPBUILDING & REPAIR

LOCATION ADDRESS: 220 EAST BAYFRONT PARKWAY
ERIE, PA 16507-0730

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

DONJON SHIPBUILDING & REPAIR

DONJON SHIPBUILDING & REPAIR LLC/ERIE

DONJON SHIPBUILDING AND REPAIR

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - OSHA-OIS

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

NPDES - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

AIRS/AFS - AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIRS FACILITY SYSTEM

EIS - EIS

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

BR - BR

AIR - AIR

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

3731 - SHIP BUILDING AND REPAIRING

3542 - MACHINE TOOLS, METAL FORMING TYPES

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

336611 - SHIP BUILDING AND REPAIRING.

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336611 - SHIP BUILDING AND REPAIRING.

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Facility Registry System (FRSPA)

[MAP ID# 1](#)

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110057665263

NAME: ERIE SHIPBUILDING, LLC

LOCATION ADDRESS: 220 EAST BAYFRONT PARKWAY
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE SHIPBUILDING, LLC

PROGRAM/S LISTED FOR THIS FACILITY

CEDRI - CEDRI

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

3731 - SHIP BUILDING AND REPAIRING

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

336611 - SHIP BUILDING AND REPAIRING.

336611 - SHIP BUILDING AND REPAIRING.

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Facility Registry System (FRSPA)

[MAP ID# 1](#)

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110059499635

NAME: ERIE SHIPBUILDERS LLC

LOCATION ADDRESS: 200 E. BAYFRONT PARKWAY
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE SHIPBUILDERS LLC

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - OSHA-OIS

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

336611 - SHIP BUILDING AND REPAIRING.

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Facility Registry System (FRSPA)

[MAP ID# 1](#)

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110060098095

NAME: DONJON SHIPBUILDING & REPAIR LLC/ERIE

LOCATION ADDRESS: 220 E BAYFRONT PKWY
ERIE, PA 16507-2402

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: YES

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

DONJON SHIPBUILDING & REPAIR LLC/ERIE

PROGRAM/S LISTED FOR THIS FACILITY

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

3731 - SHIP BUILDING AND REPAIRING

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110070276531

NAME: DONJON SHIPBUILDING AND REPAIR, LLC

LOCATION ADDRESS: 220 E. BAYFRONT PARKWAY
ERIE, PA 16507

COUNTY: NOT REPORTED

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

NO ALTERNATIVE NAME(S) LISTED FOR THIS FACILITY

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - OSHA-OIS

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

336611 - SHIP BUILDING AND REPAIRING.

336611 - SHIP BUILDING AND REPAIRING.

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Integrated Compliance Information System (formerly DOCKETS) (ICIS)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

SITE INFORMATION

GEOSEARCH ID: 110007789394

REGISTRY ID: 110007789394

NAME: **DONJON SHIPBUILDING & REPAIR LLC/ERIE**

ADDRESS: **220 E BAYFRONT PKWY
ERIE PA 16507-2402**

STANDARD INDUSTRIAL CLASSIFICATION: **SHIP BUILDING AND REPAIRING**

REGIONAL DOCKETS

- NO REGIONAL DOCKETS REPORTED

RELATED ACTIVITIES

- NO RELATED ACTIVITIES REPORTED

VIOLATIONS

- NO VIOLATIONS REPORTED

CASE IDENTIFIER

CASE NUMBER: **PA000A0000E00000000260788**

FISCAL YEAR: **NOT REPORTED**

CASE NAME: **NOT REPORTED**

ACTIVITY TYPE: **ADMINISTRATIVE - FORMAL**

ACTIVITY STATUS: **RESOLVED**

ACTIVITY STATUS DATE: **8/3/2010**

LEAD: **STATE**

CASE STATUS DATE: **8/3/2010**

DOJ DOCKET NUMBER: **NOT REPORTED**

ENFORCEMENT OUTCOME: **SOURCE AGREES**

MULTIMEDIA FLAG: **NOT REPORTED**

ENFORCEMENT SUMMARY:

NOT REPORTED

ENFORCEMENT TYPE

ENFORCEMENT TYPE: **ADMINISTRATIVE ORDER**

POLLUTANTS CITED

- NO POLLUTION CITED REPORTED

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Integrated Compliance Information System National Pollutant Discharge Elimination System (ICISNPDES)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: PAR808308INPDES
NPDES ID: PAR808308 FACILITY #: 110007789394
NAME: DONJON SHIPBUILDING AND REPAIR
PHYSICAL ADDRESS: 220 EAST BAYFRONT PARKWAY
ERIE PA 16507
COUNTY: ERIE
FACILITY TYPE: CORPORATION
IMPAIRED WATERS: NOT REPORTED

STANDARD INDUSTRIAL CLASSIFICATION

3731-SHIP BUILDING AND REPAIRING

PERMITS

FACILITY TYPE INDICATOR: NON-POTABLE WATER
PERMIT TYPE: GENERAL PERMIT COVERED FACILITY
MAJOR MINOR FACILITY: MINOR DISCHARGER
PERMIT STATUS: ADMINISTRATIVELY CONTINUED
WATER BODY: MILL CREEK
PERMIT NAME: DONJON SHIPBUILDING & REPAIR LLC
AGENCY TYPE: STATE
ORIGINAL ISSUE DATE: 11/7/1992
ISSUE DATE: 4/16/2012
ISSUING AGENCY: STATE ENVIRONMENTAL ORGANIZATION
EFFECTIVE DATE: 5/1/2012
EXPIRATION DATE: 4/30/2017
RETIREMENT DATE: NOT REPORTED
TERMINATION DATE: NOT REPORTED
PERMIT COMPLIANCE STATUS: NOT REPORTED
PERMIT SUBJECT TO DMR RUN: NOT REPORTED
REPORTABLE NONCOMPLIANCE TRACKING IS ON: YES

INSPECTIONS

MONITOR TYPE: EVALUATION
LEAD AGENCY: STATE
ACTUAL BEGIN DATE: 03/28/2017
ACTUAL END DATE: 03/28/2017

MONITOR TYPE: AUDIT
LEAD AGENCY: STATE
ACTUAL BEGIN DATE: 01/26/2012
ACTUAL END DATE: 01/26/2012

MONITOR TYPE: RECONNAISSANCE WITHOUT SAMPLING
LEAD AGENCY: STATE

Integrated Compliance Information System National Pollutant Discharge Elimination System (ICISNPDES)

ACTUAL BEGIN DATE: NOT REPORTED

ACTUAL END DATE: 08/08/2005

HISTORIC COMPLIANCE

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): 20171

HISTORIC NON-COMPLIANCE: **UNDETERMINED QNCR STATUS - INSUFFICIENT DATA, OR PERMITEE IS A MINOR DISCHARGER NOT SUBJECT TO MANDATORY REPORTING**

NUMBER OF E90 VIOLATIONS: 0

NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: 0

NUMBER OF SINGLE EVENT VIOLATIONS: 0

NUMBER OF PERMIT SCHEDULE VIOLATIONS: 0

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): 20164

HISTORIC NON-COMPLIANCE: **UNDETERMINED QNCR STATUS - INSUFFICIENT DATA, OR PERMITEE IS A MINOR DISCHARGER NOT SUBJECT TO MANDATORY REPORTING**

NUMBER OF E90 VIOLATIONS: 0

NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: 0

NUMBER OF SINGLE EVENT VIOLATIONS: 0

NUMBER OF PERMIT SCHEDULE VIOLATIONS: 0

SINGLE EVENT VIOLATIONS

- NO SINGLE EVENT VIOLATIONS REPORTED -

FORMAL ENFORCEMENT ACTIONS

- NO FORMAL ENFORCEMENT ACTIONS REPORTED -

EFFLUENT VIOLATIONS

- NOT REPORTED -

EFFLUENT VIOLATIONS contd..

- NOT REPORTED -

EFFLUENT VIOLATIONS contd..

- NOT REPORTED -

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National Pollutant Discharge Elimination System (NPDES R03)

[MAP ID# 1](#)

Distance from Property: 0 mi. (0 ft.) X

Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

NPDES ID#: PAR808308

NAME: ERIE SHIPBUILDING LLC

PHYSICAL ADDRESS: 220 EAST BAYFRONT PARKWAY

ERIE, PA 16507

PERMITTYPE / ISSUE DATE: STORM WATER GENERAL / 08/08/05

FACILITY TYPE: INDUSTRIAL

STANDARD INDUSTRIAL CLASSIFICATION: SHIP BUILDING AND REPAIRING

RECEIVING WATER: PRESQUE ISLE BAY

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Resource Conservation & Recovery Act - Generator (RCRAGR03)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 580 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD987353281

NAME: DONJON SHIPBUILDING & REPAIR

ADDRESS: 220 E BAYFRONT PKWY
ERIE, PA 16507

OWNER TYPE: OTHER

OWNER NAME: ERIE PORT AUTHORITY

OPERATOR TYPE: OTHER

OPERATOR NAME: DONJON SHIPBUILDING & REPAIR
LLC

CONTACT NAME: JOHN P NEKOLOFF

CONTACT ADDRESS: 220 E BAYFRONT PKWY
ERIE PA 16507

CONTACT PHONE: 000-000-0000 102

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 02/05/2016

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
JOHN P NEKOLOFF	SUBCONTRACTS/ENV MGR	02/05/2016
JOHN P NEKOLOFF	SUBCONTRACTS MANAGER	02/25/2014
ROBERT BROWN	SAFETY DIR	09/09/2010
JEFF FACENDA	ENV COMP MGR	07/26/2005

INDUSTRY CLASSIFICATION (NAICS)

11111 - SOYBEAN FARMING

336611 - SHIP BUILDING AND REPAIRING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **10/27/2016**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/05/2010	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
01/19/2010	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
01/29/2008	FUI FOLLOW-UP INSPECTION
02/02/2012	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

Resource Conservation & Recovery Act - Generator (RCRAGR03)

02/02/2012	SNY SIGNIFICANT NON-COMPLIER
02/05/2010	FUI FOLLOW-UP INSPECTION
02/16/2012	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
03/09/1999	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
03/28/2014	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/30/2012	SNN NOT A SIGNIFICANT NON-COMPLIER
06/08/2007	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
06/23/2005	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
07/06/2004	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
11/15/2012	NRR NON-FINANCIAL RECORD REVIEW
12/14/2007	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
12/15/2011	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS

03/28/2014	262.C GENERATORS - PRE-TRANSPORT
03/28/2014	265.I TSD IS-CONTAINER USE AND MANAGEMENT
03/28/2014	XXS STATE STATUTE OR REGULATION
02/02/2012	262.C GENERATORS - PRE-TRANSPORT
02/02/2012	264.I TSD - CONTAINER USE AND MANAGEMENT
02/02/2012	XXS STATE STATUTE OR REGULATION
01/05/2010	262.C GENERATORS - PRE-TRANSPORT
01/05/2010	265.I TSD IS-CONTAINER USE AND MANAGEMENT
01/05/2010	XXS STATE STATUTE OR REGULATION
12/14/2007	262.B GENERATORS - MANIFEST
12/14/2007	262.D GENERATORS - RECORDS/REPORTING
07/06/2004	262.C GENERATORS - PRE-TRANSPORT

ENFORCEMENTS

01/22/2010	121 WRITTEN INFORMAL
02/05/2010	121 WRITTEN INFORMAL
02/08/2012	121 WRITTEN INFORMAL
04/30/2012	311 CONSENT ASSESSMENT OF CIVIL PENALTY
06/07/2010	311 CONSENT ASSESSMENT OF CIVIL PENALTY
12/28/2007	121 WRITTEN INFORMAL

HAZARDOUS WASTE

D000

D001	IGNITABLE WASTE
D002	CORROSIVE WASTE
D003	REACTIVE WASTE
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D018	BENZENE
D035	METHYL ETHYL KETONE

Resource Conservation & Recovery Act - Generator (RCRAGR03)

- F001 THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING 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 F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- F002 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.
- F003 THE FOLLOWING SPENT NON-HALOGENATED 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 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.
- F005 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.

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Air Permitted Facilities (AIRS)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 250588AIRS
PRIMARY FACILITY ID#: 250588
PRIMARY FACILITY (PF) NAME: BLDG MATERIALS MFG
CORP/ERIE
ADDRESS: 218 W BAYFRONT PKWY
ERIE, PA 16507-2008
COUNTY: ERIE
STATUS: INACTIVE

AQ PERMIT(S)

NO PERMITS DATA REPORTED FOR THIS FACILITY

AQ SITE(S)

MUNICIPALITY NAME: ERIE
MUNICIPALITY TYPE: CITY
ACTIVE IND: YES
NAICS CODE: 324122
NAICS DESCRIPTION: ASPHALT SHINGLE AND
COATING MATERIALS MANUFACTURING

SITE EMISSIONS

CO TPY: 118.6006
NOx TPY: 43.2414
PART TPY: 96.9995
PM10 TPY: 86.5239
PM2.5 TPY: 12.7
SOx TPY: 13.2023
VOC TPY: 31.1709

SITE EMISSIONS FOR A GIVEN YEAR

PRODUCTION REPORT IND: NO
ACTIVE IND: YES
TITLE V IND: NO
YEAR: 2014
CO TPY: NOT REPORTED
NOx TPY: NOT REPORTED
PART TPY: NOT REPORTED
PM10 TPY: NOT REPORTED
PM2.5 TPY: NOT REPORTED
SOx TPY: NOT REPORTED
VOC TPY: NOT REPORTED

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Air Permitted Facilities (AIRS)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 250589AIRS
PRIMARY FACILITY ID#: 250589
PRIMARY FACILITY (PF) NAME: GAF CORP/LAKEFRONT
ADDRESS: SASSAFRAS ST
ERIE, PA 16512
COUNTY: ERIE
STATUS: INACTIVE

AQ PERMIT(S)

NO PERMITS DATA REPORTED FOR THIS FACILITY

AQ SITE(S)

MUNICIPALITY NAME: ERIE
MUNICIPALITY TYPE: CITY
ACTIVE IND: NO
NAICS CODE: NOT REPORTED
NAICS DESCRIPTION: NOT REPORTED

SITE EMISSIONS

NO EMISSIONS REPORTED FOR THIS FACILITY

SITE EMISSIONS FOR A GIVEN YEAR

PRODUCTION REPORT IND: NO
ACTIVE IND: NO
TITLE V IND: NO
YEAR: 2014
CO TPY: NOT REPORTED
NOx TPY: NOT REPORTED
PART TPY: NOT REPORTED
PM10 TPY: NOT REPORTED
PM2.5 TPY: NOT REPORTED
SOx TPY: NOT REPORTED
VOC TPY: NOT REPORTED

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Activity and Use Limitations (AUL)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X

Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 625516

FACILITY ID: 625516

NAME: ERIE CNTY CONVENTION CTR AUTH BAYFRONT SITE

ADDRESS: 218 W BAYFRONT PKWY

ERIE, PA 16507-2008

FACILITY TYPE: LAND RECYCLING CLEANUP LOCATION

REGION: NORTHWEST REGION

INCIDENT ID:

N/A

FACILITY DETAILS

REMEDATION ID: 38134

REMEDATION RECEIVED DATE: 09/08/2008

AUL DOCUMENT ID: 1632

AUL CODE: ENVIRONMENTAL COVENANT

RECEIVED DATE: 01/28/2015

ACTION DATE: 01/30/2015

ACTION: DEP SIGNED

RECORDED DATE: 02/12/2015

TERMINATED DATE: NOT REPORTED

AMENDED DATE: NOT REPORTED

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Enforcement and Compliance History Information (ECHOR03)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X

Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: 110008054540

REGISTRY ID: 110008054540

NAME: BUILDING MATERIALS MANUFACTURING CORP

ADDRESS: 218 WEST BAYFRONT PARKWAY

ERIE, PA 16507

COUNTY: ERIE

FACILITY LINK: [Facility Detail Report](#)

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Emergency Response Notification System (ERNSPA)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

GSID#: 575298
NRC REPORT #: 575298
INCIDENT LOCATION: NOT REPORTED
INCIDENT ADDRESS: 218 WEST BAYFRONT PKWY
ERIE, PA
INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 575298
DESCRIPTION OF INCIDENT: THE MATERIAL RELEASED FROM THE MOTOR OF THE TRACTOR TRAILER TRUCK DUE TO AN OIL LEAK.
TYPE OF INCIDENT: MOBILE
CAUSE: OTHER
DATE/TIME: 8/3/2001 1:10:00 PM
DISCOVERED/OCCURED/PLANNED: OCCURRED
POTENTIAL FLAG: NOT REPORTED

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 575298
DATE/TIME RECEIVED: 8/3/2001
DATE/TIME COMPLETE: 8/3/2001
CALL TYPE: INCIDENT
SOURCE: TELEPHONE
RESPONSIBLE COMPANY: NOT REPORTED
ADDRESS: ADDRESS NOT REPORTED
CITY NOT REPORTED
RESPONSIBLE COMPANY ORGANIZATION TYPE: UNKNOWN

INCIDENT DETAILS

NRC REPORT #: 575298
FIRE INVOLVED: NO
EVACUATION RADIUS: NOT REPORTED
ANY INJURIES: NO
ANY EVACUATIONS: NO
ANY FATALITIES: NO
ANY DAMAGES: NO
DAMAGE AMOUNT: NOT REPORTED
MEDIUM DESCRIPTION: WATER
ADDITIONAL MEDIUM INFO: STORM SEWER>UNKNOWN CREEK
BODY OF WATER: STORM SEWER
TRIBUTARY OF: UNKNOWN CREEK
RELEASE SECURED: YES
ESTIMATED DURATION OF RELEASE: NOT REPORTED
RELEASE RATE: NOT REPORTED
REMEDIAL ACTION: BOOMS APPLIED, ABSORBENTS APPLIED, MATERIAL CONTAINED
STATE AGENCY ON SCENE: NOT REPORTED

Emergency Response Notification System (ERNSPA)

STATE AGENCY REPORT #: **NOT REPORTED**
OTHER AGENCY NOTIFIED: **NOT REPORTED**
WATER SUPPLY CONTAMINATED: **NO**
COMMUNITY IMPACT: **NO**
ADDITIONAL INFO: **THE CALLER WILL NOTIFY THE STATE PA.**
STATE AGENCY NOTIFIED: **NOT REPORTED**
FEDERAL AGENCY NOTIFIED: **NOT REPORTED**
OFFSHORE: **NO**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- NO INFORMATION REPORTED -

MATERIALS INVOLVED

NRC REPORT #: **575298**
CHRIS CODE: **OMT**
CAS #: **NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **OIL, MISC: MOTOR / 2 GALLON(S)**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **2 GALLON(S)**

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

TRAINS DETAILS

- NO TRAIN DETAILS REPORTED -

TRAIN DERAILED UNITS

- NO TRAIN DERAILED UNITS REPORTED -

VESSEL DETAILS

- NO VESSEL DETAILS REPORTED -

MOBILE DETAILS

- NO MOBILE DETAILS REPORTED -

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Emergency Response Notification System (ERNSPA)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

GSID#: 644522
NRC REPORT #: 644522
INCIDENT LOCATION: NOT REPORTED
INCIDENT ADDRESS: 218 WEST BAY FRONT PARKWAY
ERIE, PA
INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 644522
DESCRIPTION OF INCIDENT: MATERIALS RELEASED FROM A STORAGE TANK DUE TO AN OVERFLOW.
TYPE OF INCIDENT: STORAGE TANK
CAUSE: OTHER
DATE/TIME: 5/9/2003 4:45:00 PM
DISCOVERED/OCCURED/PLANNED: OCCURRED
POTENTIAL FLAG: NOT REPORTED

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 644522
DATE/TIME RECEIVED: 5/9/2003
DATE/TIME COMPLETE: 5/9/2003
CALL TYPE: INCIDENT
SOURCE: TELEPHONE
RESPONSIBLE COMPANY: GAF MATERIALS CORP.
ADDRESS: ADDRESS NOT REPORTED
ERIE PA
RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

INCIDENT DETAILS

NRC REPORT #: 644522
FIRE INVOLVED: NO
EVACUATION RADIUS: NOT REPORTED
ANY INJURIES: NO
ANY EVACUATIONS: NO
ANY FATALITIES: NO
ANY DAMAGES: NO
DAMAGE AMOUNT: NOT REPORTED
MEDIUM DESCRIPTION: WATER
ADDITIONAL MEDIUM INFO: STORM SEWER
BODY OF WATER: STORM SEWER
TRIBUTARY OF: NOT REPORTED
RELEASE SECURED: YES
ESTIMATED DURATION OF RELEASE: NOT REPORTED
RELEASE RATE: NOT REPORTED
REMEDIAL ACTION: MATERIAL CONTAINED, CLEAN UP UNDERWAY.
STATE AGENCY ON SCENE: NOT REPORTED
STATE AGENCY REPORT #: NOT REPORTED

Emergency Response Notification System (ERNSPA)

OTHER AGENCY NOTIFIED: **NOT REPORTED**
WATER SUPPLY CONTAMINATED: **NO**
COMMUNITY IMPACT: **NO**
ADDITIONAL INFO: **NO SHEEN INFORMATION.**
STATE AGENCY NOTIFIED: **NOT REPORTED**
FEDERAL AGENCY NOTIFIED: **NOT REPORTED**
OFFSHORE: **NO**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- **NO INFORMATION REPORTED** -

MATERIALS INVOLVED

NRC REPORT #: **644522**
CHRIS CODE: **ASP**
CAS #: **NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **ASPHALT / 1500 GALLON(S)**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **100 GALLON(S)**

OTHER MATERIALS INVOLVED

- **NO OTHER MATERIALS INVOLVED** -

TRAINS DETAILS

- **NO TRAIN DETAILS REPORTED** -

TRAIN DERAILED UNITS

- **NO TRAIN DERAILED UNITS REPORTED** -

VESSEL DETAILS

- **NO VESSEL DETAILS REPORTED** -

MOBILE DETAILS

- **NO MOBILE DETAILS REPORTED** -

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Facility Registry System (FRSPA)

[MAP ID# 2](#)

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110008054540

NAME: **BUILDING MATERIALS MANUFACTURING CORP**

LOCATION ADDRESS: 218 WEST BAYFRONT PARKWAY
ERIE, PA 16507-2008

COUNTY: **ERIE**

EPA REGION: **03**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

BUILDING MATERIAL MANUFACTURING CORPORATION

BLDG MATERIALS MFG CORP/ERIE

BUILDING MATERIALS MFG. CORP.

BUILDING MATERIALS MANUFACTURING CORP

GAF BLDG MATERIALS

GAF MATERIALS CORP

BUILDING MATERIALS MFG CORP

PROGRAM/S LISTED FOR THIS FACILITY

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

TRIS - TOXIC CHEMICAL RELEASE INVENTORY SYSTEM

EIS - EIS

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

ICIS - INTEGRATED COMPLIANCE INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

2952 - ASPHALT FELTS AND COATINGS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

523910 - MISCELLANEOUS INTERMEDIATION.

324122 - ASPHALT SHINGLE AND COATING MATERIALS MANUFACTURING.

324122 - ASPHALT SHINGLE AND COATING MATERIALS MANUFACTURING.

324122 - ASPHALT SHINGLE AND COATING MATERIALS MANUFACTURING.

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Facility Registry System (FRSPA)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110059267831

NAME: **GAF BUILDING MATERIALS CORPORATION**

LOCATION ADDRESS: **FOOT OF SASSAFRASS STREET
ERIE, PA 16507**

COUNTY: **ERIE**

EPA REGION: **03**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

GAF BUILDING MATERIALS CORPORATION

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - OSHA-OIS

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

324122 - ASPHALT SHINGLE AND COATING MATERIALS MANUFACTURING.

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Facility Registry System (FRSPA)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X

Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110059896091

NAME: GAF CORP/LAKEFRONT

LOCATION ADDRESS: SASSAFRAS ST
ERIE, PA 16512

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

GAF CORP/LAKEFRONT

PROGRAM/S LISTED FOR THIS FACILITY

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Resource Conservation & Recovery Act - Non-Generator (RCRANGR03)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD005032495

NAME: GAF BLDG MATERIALS

ADDRESS: 218 W BAYFRONT PKWY
ERIE, PA 16507-2008

CONTACT NAME: NOT REPORTED

CONTACT ADDRESS: NOT REPORTED

CONTACT PHONE: NOT REPORTED

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 06/20/2018

CERTIFICATION - NO CERTIFICATION REPORTED -

INDUSTRY CLASSIFICATION (NAICS) - NO NAICS INFORMATION REPORTED -

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **07/02/2018**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/12/1988 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

06/19/2007 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

09/16/2010 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

12/10/1987 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS

12/10/1987 262.A GENERATORS - GENERAL

ENFORCEMENTS

12/23/1987 120 WRITTEN INFORMAL

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -

Resource Conservation & Recovery Act - Non-Generator (RCRANGR03)

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

[MAP ID# 2](#)

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD005032495

SITE ID#: 0300824

NAME: GAF CORP

ADDRESS: FOOT OF SASSAFRAS ST
ERIE, PA 16507

COUNTY: ERIE

FEDERAL FACILITY: NOT A FEDERAL FACILITY

NPL: NOT ON THE NPL

NON NPL STATUS: NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION

SEMS SEARCH: [CLICK HERE](#)

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

<u>ACTION</u>	<u>START DATE</u>	<u>COMPLETION DATE</u>	<u>RESPONSIBILITY</u>
PA - PRELIMINARY ASSESSMENT	5/20/1985	5/20/1985	STATE (FUND)
DS - DISCOVERY	NOT REPORTED	3/29/1985	EPA FUND
VS - ARCHIVE SITE	NOT REPORTED	5/20/1985	EPA IN-HOUSE

ACTION DESCRIPTIONS

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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Spills Listing (SPILLS)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 240575

COMPLAINT ID#: 240575

ADDRESS: 218 W BAYFRONT PARKWAY PA 16507

NOT REPORTED, PA

COUNTY: ERIE

MUNICIPALITY NAME: ERIE CITY

LOCATION: 218 W BAYFRONT PARKWAY PA 16507

FACILITY DETAIL(S)

COMPLAINT RECEIVED DATE: 02/09/05

COMPLAINT DESCRIPTION: OIL SPILL

MATERIAL INVOLVED: PETROLEUM BASED

SUBSTANCE: CRANKCASE OIL 0 EACH

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Spills Listing (SPILLS)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X

Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 241295

COMPLAINT ID#: 241295

ADDRESS: 218 WEST BAYFRONT PARKWAY PA 16507

NOT REPORTED, PA

COUNTY: ERIE

MUNICIPALITY NAME: ERIE CITY

LOCATION: 218 WEST BAYFRONT PARKWAY PA 16507

FACILITY DETAIL(S)

COMPLAINT RECEIVED DATE: 04/26/05

COMPLAINT DESCRIPTION: ROOFING ASPHALT SPILL

MATERIAL INVOLVED: OTHER

SUBSTANCE: ASPHALT - ROOFING 2000 GAL

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Spills Listing (SPILLS)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 241343

COMPLAINT ID#: 241343

ADDRESS: 218 WEST BAYFRONT HIGHWAY PA 16507

NOT REPORTED, PA

COUNTY: ERIE

MUNICIPALITY NAME: ERIE CITY

LOCATION: 218 WEST BAYFRONT HIGHWAY PA 16507

FACILITY DETAIL(S)

COMPLAINT RECEIVED DATE: 05/04/05

COMPLAINT DESCRIPTION: ROOFING ASPHALT SPILL

MATERIAL INVOLVED: OTHER

SUBSTANCE: ASPHALT - ROOFING 250 GAL

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Toxics Release Inventory (TRI)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

ID #: 16507BLDNG128WB

OWNER NAME: BUILDING MATERIALS CORP OF AMERICA

FACILITY NAME: BUILDING MATERIALS MANUFACTURING CORP

ADDRESS: 218 W BAYFRONT PKWY

ERIE, PA 16507

COUNTY: ERIE

(NAICS) INDUSTRIAL CLASSIFICATION

324122 - THIS U.S. INDUSTRY COMPRISES ESTABLISHMENTS PRIMARILY ENGAGED IN (1) SATURATING PURCHASED MATS AND FELTS WITH ASPHALT OR TAR FROM PURCHASED ASPHALTIC MATERIALS AND (2) MANUFACTURING ASPHALT AND TAR AND ROOFING CEMENTS AND COATINGS FROM PURCHASED ASPHALTIC MATERIALS.

CHEMICAL/S RELEASED

POLYCYCLIC AROMATIC COMPOUNDS, LEAD COMPOUNDS, BENZO(G,H,I)PERYLENE

RELEASE INFORMATION

(Release amounts are reported in pounds)

REPORT YEAR	FUGITIVE AIR	STACK AIR	WATER RELEASE	CLASS I INJECTION WELLS	CLASS II - V INJECTION WELLS	RCRA C / OTHER LANDFILLS	LAND TREATMENT
2006	0.00	0.60	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.60	0.00	0.00	0.00	0.00	0.00
2004	0.00	0.60	0.00	0.00	0.00	0.00	0.00
2003	0.00	0.50	0.00	0.00	0.00	0.00	0.00
2002	0.00	0.50	0.00	0.00	0.00	0.00	0.00
2001	0.00	0.50	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.14	0.00	0.00	0.00	0.00	0.00

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Voluntary Cleanup Sites (VCP)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 625516
FACILITY ID: 625516
NAME: ERIE CNTY CONVENTION CTR AUTH BAYFRONT SITE
ADDRESS: 218 W BAYFRONT PKWY
ERIE, PA 16507-2008
REMEDIATION STANDARD: SITE-SPECIFIC STANDARD
REGION: NORTHWEST REGION
LRP ACTIVITY: 41999
STATUS: COMPLETED
NOTICE OF INTENT TO REMEDIATE: NOT REPORTED

FACILITY DETAILS

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: NO
APPROVED DATE: 10/09/2014
MEDIA: GROUNDWATER

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: NO
APPROVED DATE: 10/09/2014
MEDIA: SOIL

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: NOT REPORTED
APPROVED DATE: 09/08/2008
MEDIA: GROUNDWATER

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: NOT REPORTED
APPROVED DATE: 09/08/2008
MEDIA: SOIL

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: NOT REPORTED
APPROVED DATE: NOT REPORTED
MEDIA: GROUNDWATER

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: NOT REPORTED
APPROVED DATE: NOT REPORTED
MEDIA: SOIL

Voluntary Cleanup Sites (VCP)

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Emergency Response Notification System (ERNSPA)

MAP ID# 3

Distance from Property: 0 mi. (0 ft.) X
Elevation: 582 ft. (Lower than TP)

GSID#: 1009921

NRC REPORT #: 1009921

INCIDENT LOCATION: BETWEEN THE SHERATON DOCKS AND PRESQUE ISLE YACHT CLUB DOCKS

INCIDENT ADDRESS: 120 WEST FRONT STREET

ERIE, PA

INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 1009921

DESCRIPTION OF INCIDENT: CALLER IS REPORTING AN UNKNOWN SHEEN FROM AN UNKNOWN SOURCE.

TYPE OF INCIDENT: UNKNOWN SHEEN

CAUSE: UNKNOWN

DATE/TIME: 4/28/2012 8:15:00 AM

DISCOVERED/OCCURED/PLANNED: DISCOVERED

POTENTIAL FLAG: NO

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 1009921

DATE/TIME RECEIVED: 4/28/2012

DATE/TIME COMPLETE: 4/28/2012

CALL TYPE: INCIDENT

SOURCE: TELEPHONE

RESPONSIBLE COMPANY: NOT REPORTED

ADDRESS: ADDRESS NOT REPORTED

CITY NOT REPORTED

RESPONSIBLE COMPANY ORGANIZATION TYPE: UNKNOWN

INCIDENT DETAILS

NRC REPORT #: 1009921

FIRE INVOLVED: NO

EVACUATION RADIUS: NOT REPORTED

ANY INJURIES: NO

ANY EVACUATIONS: NO

ANY FATALITIES: NO

ANY DAMAGES: NO

DAMAGE AMOUNT: NOT REPORTED

MEDIUM DESCRIPTION: WATER

ADDITIONAL MEDIUM INFO: LAKE ERIE

BODY OF WATER: LAKE ERIE

TRIBUTARY OF: NOT REPORTED

RELEASE SECURED: UNKNOWN

ESTIMATED DURATION OF RELEASE: NOT REPORTED

RELEASE RATE: NOT REPORTED

REMEDIAL ACTION: NOT REPORTED

STATE AGENCY ON SCENE: USCG

STATE AGENCY REPORT #: NOT REPORTED

Emergency Response Notification System (ERNSPA)

OTHER AGENCY NOTIFIED: **NOT REPORTED**
WATER SUPPLY CONTAMINATED: **UNKNOWN**
COMMUNITY IMPACT: **NOT REPORTED**
ADDITIONAL INFO: **NOT REPORTED**
STATE AGENCY NOTIFIED: **NOT REPORTED**
FEDERAL AGENCY NOTIFIED: **USCG**
OFFSHORE: **NO**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- **NO INFORMATION REPORTED** -

MATERIALS INVOLVED

NRC REPORT #: **1009921**
CHRIS CODE: **OUN**
CAS #: **NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **UNKNOWN OIL / UNKNOWN AMOUNT**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **UNKNOWN AMOUNT**

OTHER MATERIALS INVOLVED

- **NO OTHER MATERIALS INVOLVED** -

TRAINS DETAILS

- **NO TRAIN DETAILS REPORTED** -

TRAIN DERAILED UNITS

- **NO TRAIN DERAILED UNITS REPORTED** -

VESSEL DETAILS

- **NO VESSEL DETAILS REPORTED** -

MOBILE DETAILS

- **NO MOBILE DETAILS REPORTED** -

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Emergency Response Notification System (ERNSPA)

MAP ID# 3

Distance from Property: 0 mi. (0 ft.) X
Elevation: 582 ft. (Lower than TP)

GSID#: 312623

NRC REPORT #: 312623

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: 120 W FRONT ST
ERIE, PA 16512

INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 312623

DESCRIPTION OF INCIDENT: MATERIALS DUMPING INTO BAY FROM 2.5FT STORM DRAIN / CAUSING
GREENDISCOLORATION OF WATER

TYPE OF INCIDENT: UNKNOWN SHEEN

CAUSE: UNKNOWN

DATE/TIME: 10/31/1995 3:00:00 PM

DISCOVERED/OCCURED/PLANNED: DISCOVERED

POTENTIAL FLAG: NOT REPORTED

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 312623

DATE/TIME RECEIVED: 10/31/1995

DATE/TIME COMPLETE: 10/31/1995

CALL TYPE: INCIDENT

SOURCE: UNAVAILABLE

RESPONSIBLE COMPANY: NOT REPORTED

ADDRESS: ADDRESS NOT REPORTED
CITY NOT REPORTED

RESPONSIBLE COMPANY ORGANIZATION TYPE: UNKNOWN

INCIDENT DETAILS

NRC REPORT #: 312623

FIRE INVOLVED: NO

EVACUATION RADIUS: NOT REPORTED

ANY INJURIES: UNKNOWN

ANY EVACUATIONS: NO

ANY FATALITIES: UNKNOWN

ANY DAMAGES: NO

DAMAGE AMOUNT: NOT REPORTED

MEDIUM DESCRIPTION: WATER

ADDITIONAL MEDIUM INFO: WEST SLIP OF PRESQUE ISLE BAY

BODY OF WATER: NOT REPORTED

TRIBUTARY OF: NOT REPORTED

RELEASE SECURED: UNKNOWN

ESTIMATED DURATION OF RELEASE: NOT REPORTED

RELEASE RATE: NOT REPORTED

REMEDIAL ACTION: NOT SECURED / RATE OF RELEASE UNKNOWN

STATE AGENCY ON SCENE: NOT REPORTED

Emergency Response Notification System (ERNSPA)

STATE AGENCY REPORT #: **NOT REPORTED**
OTHER AGENCY NOTIFIED: **NOT REPORTED**
WATER SUPPLY CONTAMINATED: **UNKNOWN**
COMMUNITY IMPACT: **NO**
ADDITIONAL INFO: **NOT REPORTED**
STATE AGENCY NOTIFIED: **NOT REPORTED**
FEDERAL AGENCY NOTIFIED: **NOT REPORTED**
OFFSHORE: **YES**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- **NO INFORMATION REPORTED** -

MATERIALS INVOLVED

NRC REPORT #: **312623**
CHRIS CODE: **UNK**
CAS #: **NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **UNKNOWN MATERIAL / UNKNOWN AMOUNT**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **UNKNOWN AMOUNT**

OTHER MATERIALS INVOLVED

- **NO OTHER MATERIALS INVOLVED** -

TRAINS DETAILS

- **NO TRAIN DETAILS REPORTED** -

TRAIN DERAILED UNITS

- **NO TRAIN DERAILED UNITS REPORTED** -

VESSEL DETAILS

- **NO VESSEL DETAILS REPORTED** -

MOBILE DETAILS

- **NO MOBILE DETAILS REPORTED** -

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Emergency Response Notification System (ERNSPA)

MAP ID# 4

Distance from Property: 0 mi. (0 ft.) X
Elevation: 633 ft. (Higher than TP)

GSID#: 155395

NRC REPORT #: 155395

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: EAST 5TH ST AND WAYNE ST
ERIE, PA 16512

INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 155395

DESCRIPTION OF INCIDENT: 10" DISTRIBUTION PIPELINE/RELEASE DUE TO UNKNOWN CAUSE WHILE
PERFORMING MAINTENANCE ON THE LINE

TYPE OF INCIDENT: PIPELINE

CAUSE: UNKNOWN

DATE/TIME: 1/27/1993 4:00:00 PM

DISCOVERED/OCCURED/PLANNED: OCCURRED

POTENTIAL FLAG: NOT REPORTED

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 155395

DATE/TIME RECEIVED: 1/27/1993

DATE/TIME COMPLETE: 1/27/1993

CALL TYPE: INCIDENT

SOURCE: UNAVAILABLE

RESPONSIBLE COMPANY: NATL GAS FUEL DISTRI CORP

ADDRESS: ADDRESS NOT REPORTED
ERIE PA 16512

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

INCIDENT DETAILS

NRC REPORT #: 155395

FIRE INVOLVED: NO

EVACUATION RADIUS: NOT REPORTED

ANY INJURIES: YES

ANY EVACUATIONS: YES

ANY FATALITIES: UNKNOWN

ANY DAMAGES: UNKNOWN

DAMAGE AMOUNT: NOT REPORTED

MEDIUM DESCRIPTION: AIR

ADDITIONAL MEDIUM INFO: ATMOSPHERE

BODY OF WATER: NOT REPORTED

TRIBUTARY OF: NOT REPORTED

RELEASE SECURED: UNKNOWN

ESTIMATED DURATION OF RELEASE: NOT REPORTED

RELEASE RATE: NOT REPORTED

REMEDIAL ACTION: FIRE WAS EXTINGUISHED, LEAK WAS SECURED, THE LINE PRESSURE=6 OUNCES, SERVICE TO 8
RESIDENCES WAS INTERRUPTED WHILE REPAIRS WERE PERFORMED

Emergency Response Notification System (ERNSPA)

STATE AGENCY ON SCENE: **NOT REPORTED**

STATE AGENCY REPORT #: **NOT REPORTED**

OTHER AGENCY NOTIFIED: **NOT REPORTED**

WATER SUPPLY CONTAMINATED: **UNKNOWN**

COMMUNITY IMPACT: **NO**

ADDITIONAL INFO: **10 PERSONS FROM NEARBY RESIDENCES WERE EVACUATED, ONE EMPLOYEE WAS HOSPITALIZED WITH BURNS TO THE FACE AND HANDS, UNKNOWN AMOUNT OF DAMAGE**

STATE AGENCY NOTIFIED: **NOT REPORTED**

FEDERAL AGENCY NOTIFIED: **NOT REPORTED**

OFFSHORE: **NO**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- NO INFORMATION REPORTED -

MATERIALS INVOLVED

NRC REPORT #: **155395**

CHRIS CODE: **ONG**

CAS #: **NOT REPORTED**

MATERIAL RELEASED/AMOUNT: **NATURAL GAS / UNKNOWN AMOUNT**

IF REACHED WATER: **YES**

AMOUNT IN WATER: **NONE**

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

TRAINS DETAILS

- NO TRAIN DETAILS REPORTED -

TRAIN DERAILED UNITS

- NO TRAIN DERAILED UNITS REPORTED -

VESSEL DETAILS

- NO VESSEL DETAILS REPORTED -

MOBILE DETAILS

- NO MOBILE DETAILS REPORTED -

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Enforcement and Compliance History Information (ECHOR03)

MAP ID# 5

Distance from Property: 0.009 mi. (48 ft.) ENE
Elevation: 584 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: 110070251166

REGISTRY ID: 110070251166

NAME: HAMPTON INN - HARBOR PLACE

ADDRESS: EAST FRONT STREET
ERIE, CITY OF, PA 16507

COUNTY: ERIE

FACILITY LINK: [Facility Detail Report](#)

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Facility Registry System (FRSPA)

MAP ID# 5

Distance from Property: 0.009 mi. (48 ft.) ENE
Elevation: 584 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110070251166

NAME: HAMPTON INN - HARBOR PLACE

LOCATION ADDRESS: EAST FRONT STREET
ERIE, CITY OF, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

NO ALTERNATIVE NAME(S) LISTED FOR THIS FACILITY

PROGRAM/S LISTED FOR THIS FACILITY

NPDES - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

236220 - COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION.

721110 - HOTELS (EXCEPT CASINO HOTELS) AND MOTELS.

236220 - COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION.

721110 - HOTELS (EXCEPT CASINO HOTELS) AND MOTELS.

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Leaking Registered Storage Tanks (LRST)

MAP ID# 5

Distance from Property: 0 mi. (0 ft.) X
Elevation: 584 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 592371
FACILITY ID#: 592371
NAME: FRONT STREET GENERATING STA
ADDRESS: FRONT ST & STATE ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-16342 CLIENT ID: 6281
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: PA ELEC CO
INCIDENT ID: 22086
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: PENELEC- FRONT STATION J
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 11/3/1997
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: GROUND WATER
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

PROGRAM OTHER ID: 25-16342 CLIENT ID: 6281
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: PA ELEC CO
INCIDENT ID: 22086
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: PENELEC- FRONT STATION J
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 11/3/1997
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE

Leaking Registered Storage Tanks (LRST)

CASRN CODE: **NOT REPORTED**

CHEMICAL: **NOT REPORTED**

COMMENT: **NOT REPORTED**

PROGRAM OTHER ID: **25-16342**

CLIENT ID: **6281**

REGION: **EP NW RGNL OFF MEADVILLE**

CLIENT / OWNER: **PA ELEC CO**

INCIDENT ID: **22117**

INCIDENT TYPE: **UNDERGROUND STORAGE TANK SYSTEM CONTAINING HAZARDOUS SUBSTANCES**

INCIDENT DESCRIPTION: **PENELEC, FRONT STREET STATION**

SUSPECT DATE: **NOT REPORTED**

CONFIRMED DATE: **8/5/1989**

STATUS DATE: **6/1/1994**

STATUS DESCRIPTION: **CLEANUP COMPLETED**

SOURCE OF NOTIFICATION: **NOT REPORTED**

RELEASE DISCOVERED/FOUND: **NOT REPORTED**

SOURCE/CAUSE OF RELEASE: **NOT REPORTED**

TANK: **NOT REPORTED**

ENVIRONMENTAL IMPACT DESCRIPTION: **SOIL**

SUBSTANCE: **NOT REPORTED**

CASRN CODE: **NOT REPORTED**

CHEMICAL: **NOT REPORTED**

COMMENT: **NOT REPORTED**

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Registered Storage Tanks (RST)

MAP ID# 5

Distance from Property: 0 mi. (0 ft.) X
Elevation: 584 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-16342
FACILITY ID#: 25-16342
NAME: FRONT STREET GENERATING STA
ADDRESS: FRONT ST & STATE ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 248071
SEQUENCE NUMBER: 644200 - 001
CAPACITY(IN GALLONS): 14000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 248071
SEQUENCE NUMBER: 644201 - 001A
CAPACITY(IN GALLONS): 50000
DATE INSTALLED: 1/1/1981
TANK TYPE: ABOVEGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 248071
SEQUENCE NUMBER: 644202 - 002A
CAPACITY(IN GALLONS): 700
DATE INSTALLED: NOT REPORTED
TANK TYPE: ABOVEGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **248071**

SEQUENCE NUMBER: **644203 - 003A**

CAPACITY(IN GALLONS): **8000**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **ABOVEGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **248071**

SEQUENCE NUMBER: **644204 - 004A**

CAPACITY(IN GALLONS): **7800**

DATE INSTALLED: **1/1/1983**

TANK TYPE: **ABOVEGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **248071**

SEQUENCE NUMBER: **644205 - 005A**

CAPACITY(IN GALLONS): **5000**

DATE INSTALLED: **1/1/1973**

TANK TYPE: **ABOVEGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **248071**

SEQUENCE NUMBER: **644206 - 006A**

CAPACITY(IN GALLONS): **8500**

DATE INSTALLED: **1/1/1973**

TANK TYPE: **ABOVEGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

Registered Storage Tanks (RST)

SUBSTANCE DESCRIPTION: **NOT REPORTED**
OTHER SUBSTANCE: **NOT REPORTED**
CHEMICAL NUMBER: **NOT REPORTED**
CHEMICAL NAME: **NOT REPORTED**

SITE ID: **248071**
SEQUENCE NUMBER: **644207 - 007A**
CAPACITY(IN GALLONS): **8000**
DATE INSTALLED: **1/1/1952**
TANK TYPE: **ABOVEGROUND STORAGE TANK**
SUBSTANCE TYPE: **NOT REPORTED**
SUBSTANCE DESCRIPTION: **NOT REPORTED**
OTHER SUBSTANCE: **NOT REPORTED**
CHEMICAL NUMBER: **NOT REPORTED**
CHEMICAL NAME: **NOT REPORTED**

SITE ID: **248071**
SEQUENCE NUMBER: **644208 - 008A**
CAPACITY(IN GALLONS): **5000**
DATE INSTALLED: **NOT REPORTED**
TANK TYPE: **ABOVEGROUND STORAGE TANK**
SUBSTANCE TYPE: **NOT REPORTED**
SUBSTANCE DESCRIPTION: **NOT REPORTED**
OTHER SUBSTANCE: **NOT REPORTED**
CHEMICAL NUMBER: **NOT REPORTED**
CHEMICAL NAME: **NOT REPORTED**

SITE ID: **248071**
SEQUENCE NUMBER: **644209 - 009A**
CAPACITY(IN GALLONS): **5000**
DATE INSTALLED: **NOT REPORTED**
TANK TYPE: **ABOVEGROUND STORAGE TANK**
SUBSTANCE TYPE: **NOT REPORTED**
SUBSTANCE DESCRIPTION: **NOT REPORTED**
OTHER SUBSTANCE: **NOT REPORTED**
CHEMICAL NUMBER: **NOT REPORTED**
CHEMICAL NAME: **NOT REPORTED**

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Registered Storage Tanks (RST)

MAP ID# 6

Distance from Property: 0 mi. (0 ft.) X

Elevation: 598 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-90509

FACILITY ID#: 25-90509

NAME: BAYSHORE MARINE

ADDRESS: 133 E BAYFRONT ST

ERIE, PA 16507

COUNTY: ERIE

MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 574362

SEQUENCE NUMBER: 645549 - 001

CAPACITY(IN GALLONS): 10000

DATE INSTALLED: NOT REPORTED

TANK TYPE: UNDERGROUND STORAGE TANK

SUBSTANCE TYPE: NOT REPORTED

SUBSTANCE DESCRIPTION: NOT REPORTED

OTHER SUBSTANCE: NOT REPORTED

CHEMICAL NUMBER: NOT REPORTED

CHEMICAL NAME: NOT REPORTED

SITE ID: 574362

SEQUENCE NUMBER: 645550 - 002

CAPACITY(IN GALLONS): 2000

DATE INSTALLED: NOT REPORTED

TANK TYPE: UNDERGROUND STORAGE TANK

SUBSTANCE TYPE: NOT REPORTED

SUBSTANCE DESCRIPTION: NOT REPORTED

OTHER SUBSTANCE: NOT REPORTED

CHEMICAL NUMBER: NOT REPORTED

CHEMICAL NAME: NOT REPORTED

SITE ID: 574362

SEQUENCE NUMBER: 645551 - 003

CAPACITY(IN GALLONS): 2000

DATE INSTALLED: NOT REPORTED

TANK TYPE: UNDERGROUND STORAGE TANK

SUBSTANCE TYPE: NOT REPORTED

SUBSTANCE DESCRIPTION: NOT REPORTED

OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574362**

SEQUENCE NUMBER: **645552 - 004**

CAPACITY(IN GALLONS): **2000**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574362**

SEQUENCE NUMBER: **645553 - 005**

CAPACITY(IN GALLONS): **2000**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574362**

SEQUENCE NUMBER: **645554 - 006**

CAPACITY(IN GALLONS): **2000**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Activity and Use Limitations (AUL)

MAP ID# 7

Distance from Property: 0 mi. (0 ft.) X

Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 765682

FACILITY ID: 765682

NAME: CSX BAYFRONT SITE FMR

ADDRESS: W SASSAFRAS ST-N BAYFRONT PKWY
ERIE, PA 16501

FACILITY TYPE: LAND RECYCLING CLEANUP LOCATION

REGION: NORTHWEST REGION

INCIDENT ID:

N/A

FACILITY DETAILS

REMEDATION ID: 43359

REMEDATION RECEIVED DATE: 05/15/2013

AUL DOCUMENT ID: 1738

AUL CODE: ENVIRONMENTAL COVENANT

RECEIVED DATE: 06/25/2015

ACTION DATE: 07/10/2015

ACTION: DEP SIGNED

RECORDED DATE: 12/02/2015

TERMINATED DATE: NOT REPORTED

AMENDED DATE: NOT REPORTED

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Voluntary Cleanup Sites (VCP)

MAP ID# 7

Distance from Property: 0 mi. (0 ft.) X
Elevation: 581 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 765682
FACILITY ID: 765682
NAME: CSX BAYFRONT SITE FMR
ADDRESS: W SASSAFRAS ST-N BAYFRONT PKWY
ERIE, PA 16501
REMEDIACTION STANDARD: SITE-SPECIFIC STANDARD
REGION: NORTHWEST REGION
LRP ACTIVITY: 45181
STATUS: COMPLETED
NOTICE OF INTENT TO REMEDIATE: NOT REPORTED

FACILITY DETAILS

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: YES
APPROVED DATE: 04/06/2015
MEDIA: GROUNDWATER

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: YES
APPROVED DATE: 04/06/2015
MEDIA: SOIL

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Municipal Waste Operations (MWO)

MAP ID# 8

Distance from Property: 0 mi. (0 ft.) SSW
Elevation: 621 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: 637049MWO

SITE ID: 615902

FACILITY NAME: WAYNE STREET DUMP

ADDRESS: ERIE COUNTY

ERIE, PA 16507

SITE STATUS: ABANDONED

ORGANIZATION NAME: WAYNE STREET DUMP

CLIENT NAME: WAYNE STREET DUMP

CLIENT ID: 999999

PRIMARY FACILITY ID: 637049

PRIMARY FACILITY NAME: WAYNE ST DUMP

FACILITY TYPE: MUNICIPAL WASTE OPERATION

PRIMARY FACILITY STATUS: INACTIVE

PRIMARY FACILITY KIND: UNAVAILABLE

CLIENT RELATIONSHIP: N/A

OTHER FACILITY ID: 6-020 100336

FACILITY DETAILS

SUB-FACILITY ID: 770779

SUB-FACILITY NAME: WAYNE ST DUMP

SUB-FACILITY TYPE: LANDFILL - ABANDONED

SUB-FACILITY STATUS: ABANDONED

COMPLIANCE: YES

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Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

MAP ID# 8

Distance from Property: 0 mi. (0 ft.) SSW
Elevation: 621 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAD023009970

SITE ID#: 0300885

NAME: WAYNE STREET DUMP

ADDRESS: EAST BAYFRONT RD - END OF
ERIE, PA 16501

COUNTY: ERIE

FEDERAL FACILITY: NOT A FEDERAL FACILITY

NPL: NOT ON THE NPL

NON NPL STATUS: NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION

SEMS SEARCH: [CLICK HERE](#)

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

<u>ACTION</u>	<u>START DATE</u>	<u>COMPLETION DATE</u>	<u>RESPONSIBILITY</u>
PA - PRELIMINARY ASSESSMENT	3/26/1986	3/26/1986	STATE (FUND)
DS - DISCOVERY	NOT REPORTED	3/18/1986	STATE (FUND)
VS - ARCHIVE SITE	NOT REPORTED	3/26/1986	EPA IN-HOUSE

ACTION DESCRIPTIONS

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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Solid Waste Facilities (SWF)

MAP ID# 8

Distance from Property: 0 mi. (0 ft.) X
Elevation: 621 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 637049
PRIMARY FACILITY ID#: 637049
NAME: WAYNE ST DUMP
ADDRESS: NOT REPORTED
NOT REPORTED, PA
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY
STATUS: INACTIVE

FACILITY DETAIL(S)

PROGRAM OTHER ID: 6-020 100336	SUB FACILITY ID: 770779
AVG DAILY VOLUME: NOT REPORTED	SUB FACILITY NAME: WAYNE ST DUMP
MAX DAILY VOLUME: NOT REPORTED	SUB FACILITY TYPE: MUNICIPAL WASTE LANDFILLS
PERMITTED ACRES: NOT REPORTED	SUB FACILITY STATUS: ABANDONED
DATE CLOSURE: NOT REPORTED	
ATTRIBUTE DESCRIPTION: NOT REPORTED	
COMMENTS: NOT REPORTED	

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Enforcement and Compliance History Information (ECHOR03)

MAP ID# 9

Distance from Property: 0.003 mi. (16 ft.) NNW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: 110000919418

REGISTRY ID: 110000919418

NAME: PHMC FLAGSHIP NIAGARA

ADDRESS: 164 E FRONT ST
ERIE, PA 16507

COUNTY: ERIE

FACILITY LINK: [Facility Detail Report](#)

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Facility Registry System (FRSPA)

MAP ID# 9

Distance from Property: 0.003 mi. (16 ft.) NNW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110000919418

NAME: PHMC FLAGSHIP NIAGARA

LOCATION ADDRESS: 164 E FRONT ST
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

PHMC FLAGSHIP NIAGARA

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Resource Conservation & Recovery Act - Generator (RCRAGR03)

MAP ID# 9

Distance from Property: 0.003 mi. (16 ft.) NNW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD987399672

OWNER TYPE: STATE

NAME: PHMC FLAGSHIP NIAGARA

OWNER NAME: COMMONWEALTH OF PA

ADDRESS: 164 E FRONT ST

OPERATOR TYPE: NOT REPORTED

ERIE, PA 16507

OPERATOR NAME: NOT REPORTED

CONTACT NAME: LINDA CAPPABIANCA

CONTACT ADDRESS: 164 E FRONT ST

ERIE PA 16507

CONTACT PHONE: 814-871-4596

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 07/20/1993

CERTIFICATION - NO CERTIFICATION REPORTED -

INDUSTRY CLASSIFICATION (NAICS) - NO NAICS INFORMATION REPORTED -

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **09/15/2000**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -

VIOLATIONS - NO VIOLATIONS REPORTED -

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE

D001 IGNITABLE WASTE

F003 THE FOLLOWING SPENT NON-HALOGENATED 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 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.

Resource Conservation & Recovery Act - Generator (RCRAGR03)

F005 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.

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Underground Injection Control Wells (UIC)

MAP ID# 10

Distance from Property: 0.008 mi. (42 ft.) ENE
Elevation: 577 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: **049-23901**
API NUMBER: **049-23901**
OPERATOR ID NUMBER: **OGO-43190**
OPERATOR: **ERIE WESTERN PA PORT AUTH**
FARM NAME: **ERIE SAND & GRAVEL CO 1**
ADDRESS: **ERIE COUNTY**
ERIE, PA 16507
COUNTY: **ERIE**
MUNICIPALITY NAME: **ERIE CITY**
REGION OF WELL LOCATION: **EP DOGO NWDO DSTR OFF**
WELL TYPE: **GAS**
WELL STATUS: **PLUGGED OG WELL**
CONFIGURATION: **VERTICAL WELL**
IF THE WELL IS UNCONVENTIONAL?: **NO**
SPUD DATE: **7/1/1984**

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Registered Storage Tanks (RST)

MAP ID# 11

Distance from Property: 0.008 mi. (42 ft.) SSE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-91502
FACILITY ID#: 25-91502
NAME: HAMOT MED CTR
ADDRESS: 200 STATE ST
ERIE, PA 16550-0001
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 540336
SEQUENCE NUMBER: 646058 - 001
CAPACITY(IN GALLONS): 8000
DATE INSTALLED: 9/15/1995
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

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Enforcement and Compliance History Information (ECHOR03)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: 110000560642

REGISTRY ID: 110000560642

NAME: CHESTNUT FILTRATION PLANT

ADDRESS: 340 WEST BAYFRONT PARKWAY
ERIE, PA 16507

COUNTY: ERIE

FACILITY LINK: [Facility Detail Report](#)

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Emergency Response Notification System (ERNSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

GSID#: 494994

NRC REPORT #: 494994

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: 340 WEST BAYFRONT PWY
ERIE, PA 16507

INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 494994

DESCRIPTION OF INCIDENT: 1 TON CHLORINE CONTAINER / THE MATERIAL RELEASED DUE TO A FAULTYREGULATOR

TYPE OF INCIDENT: FIXED

CAUSE: EQUIPMENT FAILURE

DATE/TIME: 8/12/1999 5:30:00 PM

DISCOVERED/OCCURED/PLANNED: DISCOVERED

POTENTIAL FLAG: NOT REPORTED

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 494994

DATE/TIME RECEIVED: 8/13/1999

DATE/TIME COMPLETE: 8/13/1999

CALL TYPE: INCIDENT

SOURCE: UNAVAILABLE

RESPONSIBLE COMPANY: ERIE CITY WATER AUTHORITY

ADDRESS: ADDRESS NOT REPORTED
ERIE PA 16507

RESPONSIBLE COMPANY ORGANIZATION TYPE: PUBLIC UTILITY

INCIDENT DETAILS

NRC REPORT #: 494994

FIRE INVOLVED: NO

EVACUATION RADIUS: NOT REPORTED

ANY INJURIES: YES

ANY EVACUATIONS: NO

ANY FATALITIES: UNKNOWN

ANY DAMAGES: NO

DAMAGE AMOUNT: NOT REPORTED

MEDIUM DESCRIPTION: AIR

ADDITIONAL MEDIUM INFO: ATMOSPHERE

BODY OF WATER: NOT REPORTED

TRIBUTARY OF: NOT REPORTED

RELEASE SECURED: UNKNOWN

ESTIMATED DURATION OF RELEASE: NOT REPORTED

RELEASE RATE: NOT REPORTED

REMEDIAL ACTION: FIRST RESPONSE TEAM DEPLOYED / ISOLATED THE AREA

STATE AGENCY ON SCENE: NOT REPORTED

STATE AGENCY REPORT #: NOT REPORTED

Emergency Response Notification System (ERNSPA)

OTHER AGENCY NOTIFIED: **NOT REPORTED**

WATER SUPPLY CONTAMINATED: **UNKNOWN**

COMMUNITY IMPACT: **NO**

ADDITIONAL INFO: **A WORKER WAS TAKEN TO THE HOSPITAL FOR PRECAUTIONARY PURPOSES DUE TO EXPOSURE / HE WAS EVALUATED AND RELEASED**

STATE AGENCY NOTIFIED: **NOT REPORTED**

FEDERAL AGENCY NOTIFIED: **NOT REPORTED**

OFFSHORE: **NO**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- **NO INFORMATION REPORTED** -

MATERIALS INVOLVED

NRC REPORT #: **494994**

CHRIS CODE: **CLX**

CAS #: **NOT REPORTED**

MATERIAL RELEASED/AMOUNT: **CHLORINE / 100 POUND(S)**

IF REACHED WATER: **YES**

AMOUNT IN WATER: **NONE**

OTHER MATERIALS INVOLVED

- **NO OTHER MATERIALS INVOLVED** -

TRAINS DETAILS

- **NO TRAIN DETAILS REPORTED** -

TRAIN DERAILED UNITS

- **NO TRAIN DERAILED UNITS REPORTED** -

VESSEL DETAILS

- **NO VESSEL DETAILS REPORTED** -

MOBILE DETAILS

- **NO MOBILE DETAILS REPORTED** -

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110000560642

NAME: CHESTNUT FILTRATION PLANT

LOCATION ADDRESS: 340 WEST BAYFRONT PARKWAY
ERIE, PA 16507-2004

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTH
CHESTNUT ST TREATMENT PLANT
ERIE CITY WATER AUTHORITY
ERIE CITY WATER AUTHORITY-RSW PLANT
CHESTNUT FILTRATION PLANT
ERIE WATER WORKS CHESTNUT FILTRATION PLANT

PROGRAM/S LISTED FOR THIS FACILITY

ICIS - INTEGRATED COMPLIANCE INFORMATION SYSTEM
RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM
SFDW - SFDW
NPDES - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
RMP - RISK MANAGEMENT PLAN

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

4941 - WATER SUPPLY

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

22131 - WATER SUPPLY AND IRRIGATION SYSTEMS
221310 - WATER SUPPLY AND IRRIGATION SYSTEMS.
221310 - WATER SUPPLY AND IRRIGATION SYSTEMS.

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110010963298

NAME: CHESTNUT ST TREATMENT PLANT

LOCATION ADDRESS: 340 W BAYFRONT PARKWAY
ERIE, PA 16507-2004

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

CHESTNUT ST TREATMENT PLANT

PROGRAM/S LISTED FOR THIS FACILITY

NPDES - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

4941 - WATER SUPPLY

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

221310 - WATER SUPPLY AND IRRIGATION SYSTEMS.

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110049586783

NAME: ERIE CITY WATER AUTHORITY-CHESTNUT STREET PLNT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.

ERIE, PA 16507

COUNTY: NOT REPORTED

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-KUHL RD TANK PLANT
ERIE CITY WATER AUTHORITY-SIGSBEE PS PLANT
ERIE CITY WATER AUTHORITY-JOHNSON PS PLANT
ERIE CITY WATER AUTHORITY-CAMPHAUSEN PS PLANT
ERIE CITY WATER AUTHORITY-CHERRY PS PLANT
ERIE CITY WATER AUTHORITY-MCKEAN TAKE POINT
ERIE CITY WATER AUTHORITY-E LAKE TANK PLANT
ERIE CITY WATER AUTHORITY-STATION RD PS PLANT
ERIE CITY WATER AUTHORITY-CHESTNUT STREET PLNT
ERIE CITY WATER AUTHORITY-E LAKE PS PLANT
ERIE CITY WATER AUTHORITY-DEPOT RD PS PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063392724

NAME: ERIE CITY WATER AUTHORITY-SIGSBEE PS PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-SIGSBEE PS PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063397104

NAME: ERIE CITY WATER AUTHORITY-E LAKE TANK PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-E LAKE TANK PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063397113

NAME: ERIE CITY WATER AUTHORITY-CAMPHAUSEN PS PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.

ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-CAMPHAUSEN PS PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063407576

NAME: ERIE CITY WATER AUTHORITY-MCKEAN TAKE POINT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-MCKEAN TAKE POINT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063407585

NAME: ERIE CITY WATER AUTHORITY-STATION RD PS PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-STATION RD PS PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063407763

NAME: ERIE CITY WATER AUTHORITY-KUHL RD TANK PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-KUHL RD TANK PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063455773

NAME: ERIE CITY WATER AUTHORITY-E LAKE PS PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-E LAKE PS PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063478543

NAME: ERIE CITY WATER AUTHORITY-JOHNSON PS PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-JOHNSON PS PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063519072

NAME: ERIE CITY WATER AUTHORITY-DEPOT RD PS PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-DEPOT RD PS PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110063537436

NAME: ERIE CITY WATER AUTHORITY-CHERRY PS PLANT

LOCATION ADDRESS: 340 W. BAYFRONT PKWY.
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

ERIE CITY WATER AUTHORITY-CHERRY PS PLANT

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110064363488

NAME: **MCKEAN TWP WATERWORKS-RT 99 TP BOOSTER**

LOCATION ADDRESS: **340 WEST BAYFRONT PARKWAY
ERIE, PA 16507**

COUNTY: **ERIE**

EPA REGION: **03**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

MCKEAN TWP WATERWORKS-RT 99 TP BOOSTER

PROGRAM/S LISTED FOR THIS FACILITY

SFDW - SFDW

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Integrated Compliance Information System (formerly DOCKETS) (ICIS)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

SITE INFORMATION

GEOSEARCH ID: 110000560642

REGISTRY ID: 110000560642

NAME: **ERIE WATER WORKS CHESTNUT FILTRATION PLANT**

ADDRESS: **340 WEST BAYFRONT PARKWAY
ERIE PA 16507**

STANDARD INDUSTRIAL CLASSIFICATION: **WATER SUPPLY**

REGIONAL DOCKETS

CAA-03-2005-0288

RELATED ACTIVITIES

- NO RELATED ACTIVITIES REPORTED

VIOLATIONS

- NO VIOLATIONS REPORTED

CASE IDENTIFIER

CASE NUMBER: **03-2005-0288**

FISCAL YEAR: **2005**

CASE NAME: **ERIE WATER WORKS CHESTNUT FILTRATION PLANT**

ACTIVITY TYPE: **ADMINISTRATIVE - FORMAL**

ACTIVITY STATUS: **FINAL ORDER ISSUED**

ACTIVITY STATUS DATE: **1/3/2006**

LEAD: **EPA**

CASE STATUS DATE: **1/3/2006**

DOJ DOCKET NUMBER: **NOT REPORTED**

ENFORCEMENT OUTCOME: **NOT REPORTED**

MULTIMEDIA FLAG: **NOT REPORTED**

ENFORCEMENT SUMMARY:

ESP

ENFORCEMENT TYPE

ENFORCEMENT TYPE: **CAA 113D1 ACTION FOR PENALTY - 112(R) EXPEDITED SETTLEMENT PROGRAM**

POLLUTANTS CITED

POLLUTANT DESCRIPTION: **CHLORINE**

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Integrated Compliance Information System National Pollutant Discharge Elimination System (ICISNPDES)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **PA0104167INPDES**
NPDES ID: **PA0104167** FACILITY #: **110000560642**
NAME: **CHESTNUT ST TREATMENT PLANT**
PHYSICAL ADDRESS: **340 W BAYFRONT PARKWAY**
ERIE PA 16507-2004
COUNTY: **ERIE**
FACILITY TYPE: **MUNICIPALITY**
IMPAIRED WATERS: **NOT REPORTED**

STANDARD INDUSTRIAL CLASSIFICATION

4941-WATER SUPPLY

PERMITS

FACILITY TYPE INDICATOR: **NON-POTABLE WATER**
PERMIT TYPE: **NPDES INDIVIDUAL PERMIT**
MAJOR MINOR FACILITY: **MINOR DISCHARGER**
PERMIT STATUS: **EXPIRED**
WATER BODY: **WEST BRANCH CASCADE CREEK**
PERMIT NAME: **ERIE CITY WATER AUTH ERIE CNTY**
AGENCY TYPE: **STATE**
ORIGINAL ISSUE DATE: **5/22/1990**
ISSUE DATE: **2/6/2012**
ISSUING AGENCY: **STATE ENVIRONMENTAL ORGANIZATION**
EFFECTIVE DATE: **3/1/2012**
EXPIRATION DATE: **2/28/2017**
RETIREMENT DATE: **NOT REPORTED**
TERMINATION DATE: **NOT REPORTED**
PERMIT COMPLIANCE STATUS: **NOT REPORTED**
PERMIT SUBJECT TO DMR RUN: **NOT REPORTED**
REPORTABLE NONCOMPLIANCE TRACKING IS ON: **YES**

INSPECTIONS

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **01/11/2017**
ACTUAL END DATE: **01/11/2017**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **05/03/2013**
ACTUAL END DATE: **05/03/2013**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**

Integrated Compliance Information System National Pollutant Discharge Elimination System (ICISNPDES)

ACTUAL BEGIN DATE: 02/13/2008

ACTUAL END DATE: 02/13/2008

MONITOR TYPE: RECONNAISSANCE WITHOUT SAMPLING

LEAD AGENCY: STATE

ACTUAL BEGIN DATE: NOT REPORTED

ACTUAL END DATE: 10/26/2005

HISTORIC COMPLIANCE

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): 20171

HISTORIC NON-COMPLIANCE: **UNDETERMINED QNCR STATUS - INSUFFICIENT DATA, OR PERMITEE IS A MINOR DISCHARGER NOT SUBJECT TO MANDATORY REPORTING**

NUMBER OF E90 VIOLATIONS: 0

NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: 0

NUMBER OF SINGLE EVENT VIOLATIONS: 0

NUMBER OF PERMIT SCHEDULE VIOLATIONS: 0

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): 20164

HISTORIC NON-COMPLIANCE: **UNDETERMINED QNCR STATUS - INSUFFICIENT DATA, OR PERMITEE IS A MINOR DISCHARGER NOT SUBJECT TO MANDATORY REPORTING**

NUMBER OF E90 VIOLATIONS: 0

NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: 0

NUMBER OF SINGLE EVENT VIOLATIONS: 0

NUMBER OF PERMIT SCHEDULE VIOLATIONS: 0

SINGLE EVENT VIOLATIONS

- NO SINGLE EVENT VIOLATIONS REPORTED -

FORMAL ENFORCEMENT ACTIONS

- NO FORMAL ENFORCEMENT ACTIONS REPORTED -

EFFLUENT VIOLATIONS

- NOT REPORTED -

EFFLUENT VIOLATIONS contd..

- NOT REPORTED -

EFFLUENT VIOLATIONS contd..

- NOT REPORTED -

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National Pollutant Discharge Elimination System (NPDES R03)

[MAP ID# 12](#)

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

NPDES ID#: PA0100889

NAME: ERIE CITY WATER AUTH

PHYSICAL ADDRESS: 340 WEST BAYFRONT PARKWAY
ERIE, PA 16507

PERMITTYPE / ISSUE DATE: NOT REPORTED / 10/26/05

FACILITY TYPE: INDUSTRIAL

STANDARD INDUSTRIAL CLASSIFICATION: WATER SUPPLY

RECEIVING WATER: PRESQUE ISLE BAY

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Resource Conservation & Recovery Act - Generator (RCRAGR03)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAR000501494

NAME: ERIE CITY WATER AUTH

ADDRESS: 340 W BAYFRONT PKWY
ERIE, PA 16507

CONTACT NAME: DAVE MOTHERWELL

CONTACT ADDRESS: 340 W BAYFRONT PKWY
ERIE PA 16507

CONTACT PHONE: 814-870-8000

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 02/07/2001

CERTIFICATION - NO CERTIFICATION REPORTED -

INDUSTRY CLASSIFICATION (NAICS) - NO NAICS INFORMATION REPORTED -

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **05/22/2001**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -

VIOLATIONS - NO VIOLATIONS REPORTED -

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE

D001 IGNITABLE WASTE

D002 CORROSIVE WASTE

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Facility Registry System (FRSPA)

MAP ID# 13

Distance from Property: 0.01 mi. (53 ft.) S
Elevation: 628 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: 110059527757

NAME: **MAYER BROTHERS CONSTRUCTION INC.**

LOCATION ADDRESS: **100 PEACH STREET**
ERIE, PA 16550

COUNTY: **ERIE**

EPA REGION: **03**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

MAYER BROTHERS CONSTRUCTION INC.

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - OSHA-OIS

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

333120 - CONSTRUCTION MACHINERY MANUFACTURING.

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Air Permitted Facilities (AIRS)

MAP ID# 14

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: **254268AIRS**
PRIMARY FACILITY ID#: **254268**
PRIMARY FACILITY (PF) NAME: **PENELEC/FRONT ST**
ADDRESS: **FRONT ST**
ERIE, PA 16507
COUNTY: **ERIE**
STATUS: **INACTIVE**

AQ PERMIT(S)

NO PERMITS DATA REPORTED FOR THIS FACILITY

AQ SITE(S)

MUNICIPALITY NAME: **ERIE**
MUNICIPALITY TYPE: **CITY**
ACTIVE IND: **YES**
NAICS CODE: **221110**
NAICS DESCRIPTION: **ELECTRIC POWER
GENERATION**

SITE EMISSIONS

CO TPY: **63**
NOx TPY: **2208.2**
PART TPY: **108.8**
PM10 TPY: **73**
PM2.5 TPY: **NOT REPORTED**
SOx TPY: **7831.4**
VOC TPY: **7.2**

SITE EMISSIONS FOR A GIVEN YEAR

NO EMISSIONS REPORTED FOR THIS FACILITY

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Enforcement and Compliance History Information (ECHOR03)

[MAP ID# 14](#)

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: 110012512218

REGISTRY ID: 110012512218

NAME: PENELEC FRONT ST STATION

ADDRESS: 124 FRONT STREET

ERIE, PA 16507

COUNTY: ERIE

FACILITY LINK: [Facility Detail Report](#)

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Facility Registry System (FRSPA)

MAP ID# 14

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110012512218

NAME: PENELEC FRONT ST STATION

LOCATION ADDRESS: 124 FRONT STREET
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

FRONT STREET

PENELEC - FRONT STREET STATION

PROGRAM/S LISTED FOR THIS FACILITY

CAMDBS - CAM DATABASE SYSTEM

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

221112 - FOSSIL FUEL ELECTRIC POWER GENERATION.

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Facility Registry System (FRSPA)

MAP ID# 14

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110059934987

NAME: PENELEC FRONT ST STATION

LOCATION ADDRESS: 124 FRONT ST
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

PENELEC FRONT ST STATION

PROGRAM/S LISTED FOR THIS FACILITY

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 14

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: 110060113158

NAME: PENELEC/FRONT ST

LOCATION ADDRESS: FRONT ST
ERIE, PA 16507

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

PENELEC/FRONT ST

PROGRAM/S LISTED FOR THIS FACILITY

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

4911 - ELECTRIC SERVICES

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

325413 - IN-VITRO DIAGNOSTIC SUBSTANCE MANUFACTURING.

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PCB Activity Database System (PADS)

MAP ID# 14

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD000000012

NAME: PENELEC FRONT STREET STN

ADDRESS: FRONT AND STATE STS
ERIE, PA 16507-0000

CERTIFICATION DATE: 9/28/1992

INSTALLATION CONTACT NAME: DONALD A GOODMAN

INSTALLATION CONTACT PHONE: 814-533-8413

TYPE OF PCB ACTIVITY

GENERATOR: NOT REPORTED

DISPOSER: NOT REPORTED

STORER: NOT REPORTED

RESEARCH: NOT REPORTED

TRANSPORTER: NOT REPORTED

SMELTER: NOT REPORTED

OWNER INFORMATION

NAME: PENNSYLVANIA ELEC CO

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Resource Conservation & Recovery Act - Non-Generator (RCRANGR03)

MAP ID# 14

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD000621748

NAME: PENELEC FRONT ST STATION

ADDRESS: 124 FRONT ST
ERIE, PA 16507

CONTACT NAME: NOT REPORTED

CONTACT ADDRESS: NOT REPORTED

CONTACT PHONE: NOT REPORTED

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 06/20/2018

OWNER TYPE: NOT REPORTED

OWNER NAME: NOT REPORTED

OPERATOR TYPE: NOT REPORTED

OPERATOR NAME: NOT REPORTED

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

JAMES R KING

ENV. SCIENTIST

02/23/1990

INDUSTRY CLASSIFICATION (NAICS)

2211 - ELECTRIC POWER GENERATION, TRANSMISSION AND DISTRIBUTION

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **07/02/2018**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - **NO EVALUATIONS REPORTED** -

VIOLATIONS - **NO VIOLATIONS REPORTED** -

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED** -

HAZARDOUS WASTE

D000

D001 IGNITABLE WASTE

D002 CORROSIVE WASTE

D007 CHROMIUM

D008 LEAD

Resource Conservation & Recovery Act - Non-Generator (RCRANGR03)

D009 MERCURY

F001 THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:
TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON
TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN
DEGREASING 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 F002, F004, AND F005; AND STILL
BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

F002 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.

U122 FORMALDEHYDE

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

[MAP ID# 14](#)

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD000621748

SITE ID#: 0300462

NAME: PENELEC-FRONT STREET

ADDRESS: FRONT ST
ERIE, PA 16507

COUNTY: ERIE

FEDERAL FACILITY: NOT A FEDERAL FACILITY

NPL: NOT ON THE NPL

NON NPL STATUS: NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION

SEMS SEARCH: [CLICK HERE](#)

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

<u>ACTION</u>	<u>START DATE</u>	<u>COMPLETION DATE</u>	<u>RESPONSIBILITY</u>
PA - PRELIMINARY ASSESSMENT	10/1/1984	11/1/1984	STATE (FUND)
DS - DISCOVERY	NOT REPORTED	10/1/1984	EPA FUND
VS - ARCHIVE SITE	NOT REPORTED	11/1/1984	EPA IN-HOUSE

ACTION DESCRIPTIONS

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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Voluntary Cleanup Sites (VCP)

MAP ID# 14

Distance from Property: 0.011 mi. (58 ft.) NW
Elevation: 582 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 625546
FACILITY ID: 625546
NAME: GPU FRONT ST STA PENELEC
ADDRESS: FRONT ST
ERIE, PA 16511
REMEDIATION STANDARD: STATEWIDE HEALTH STANDARD
REGION: NORTHWEST REGION
LRP ACTIVITY: 22083
STATUS: COMPLETED
NOTICE OF INTENT TO REMEDIATE: NOT REPORTED

FACILITY DETAILS

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: NO
APPROVED DATE: 11/06/1997
MEDIA: SOIL

CONTAMINANT CATEGORY: INORGANICS
ACTIVITY AND USE LIMITATION: NO
APPROVED DATE: 11/06/1997
MEDIA: SOIL

CONTAMINANT CATEGORY: INORGANICS
ACTIVITY AND USE LIMITATION: NO
APPROVED DATE: 10/02/1997
MEDIA: GROUNDWATER

CONTAMINANT CATEGORY: INORGANICS
ACTIVITY AND USE LIMITATION: NO
APPROVED DATE: 10/02/1997
MEDIA: SOIL

CONTAMINANT CATEGORY: INORGANICS
ACTIVITY AND USE LIMITATION: NO
APPROVED DATE: 10/16/1998
MEDIA: SOIL

CONTAMINANT CATEGORY: NOT REPORTED
ACTIVITY AND USE LIMITATION: NO
APPROVED DATE: 11/06/1997
MEDIA: NOT REPORTED

Voluntary Cleanup Sites (VCP)

CONTAMINANT CATEGORY: **NOT REPORTED**
ACTIVITY AND USE LIMITATION: **NOT REPORTED**
APPROVED DATE: **08/06/1997**
MEDIA: **NOT REPORTED**

CONTAMINANT CATEGORY: **NOT REPORTED**
ACTIVITY AND USE LIMITATION: **NOT REPORTED**
APPROVED DATE: **NOT REPORTED**
MEDIA: **NOT REPORTED**

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Emergency Response Notification System (ERNSPA)

MAP ID# 15

Distance from Property: 0.015 mi. (79 ft.) W
Elevation: 575 ft. (Lower than TP)

GSID#: 75647

NRC REPORT #: 75647

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: UNITED ERIE FACILITY
ERIE, PA

INCIDENT COUNTY: ERIE

INCIDENT INFORMATION

NRC REPORT #: 75647

DESCRIPTION OF INCIDENT: FIRE AND EMPLOSION OCCURRED AT A FACTORY. MOST OF THE MATERIAL RELEASED WAS CONSUMED IN THE FIRE.

TYPE OF INCIDENT: FIXED

CAUSE: OTHER

DATE/TIME: 6/11/1991 10:00:00 AM

DISCOVERED/OCCURED/PLANNED: OCCURRED

POTENTIAL FLAG: NOT REPORTED

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: 75647

DATE/TIME RECEIVED: 6/14/1991

DATE/TIME COMPLETE: 6/14/1991

CALL TYPE: INCIDENT

SOURCE: UNAVAILABLE

RESPONSIBLE COMPANY: UNITED ERIE

ADDRESS: ADDRESS NOT REPORTED
ERIE PA

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

INCIDENT DETAILS

NRC REPORT #: 75647

FIRE INVOLVED: NO

EVACUATION RADIUS: NOT REPORTED

ANY INJURIES: UNKNOWN

ANY EVACUATIONS: NO

ANY FATALITIES: UNKNOWN

ANY DAMAGES: NO

DAMAGE AMOUNT: NOT REPORTED

MEDIUM DESCRIPTION: WATER

ADDITIONAL MEDIUM INFO: PRESQUE ISLE BAY>LAKE ERIE

BODY OF WATER: NOT REPORTED

TRIBUTARY OF: NOT REPORTED

RELEASE SECURED: UNKNOWN

ESTIMATED DURATION OF RELEASE: NOT REPORTED

RELEASE RATE: NOT REPORTED

REMEDIAL ACTION: FIRE DEPT RESPONDED AND FOUGHT FIRE; FIRE FIGHTING WATER MAY HAVE FLUSHED SOME PRODUCT DOWN A STORM SEWER.

Emergency Response Notification System (ERNSPA)

STATE AGENCY ON SCENE: **NOT REPORTED**
STATE AGENCY REPORT #: **NOT REPORTED**
OTHER AGENCY NOTIFIED: **NOT REPORTED**
WATER SUPPLY CONTAMINATED: **UNKNOWN**
COMMUNITY IMPACT: **NO**
ADDITIONAL INFO: **MSIS NO. MP91005910**
STATE AGENCY NOTIFIED: **NOT REPORTED**
FEDERAL AGENCY NOTIFIED: **NOT REPORTED**
OFFSHORE: **NO**

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT

- NO INFORMATION REPORTED -

MATERIALS INVOLVED

NRC REPORT #: **75647**
CHRIS CODE: **FAL**
CAS #: **NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **FURFURYL ALCOHOL / 2995 GALLON(S)**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **5 GALLON(S)**

NRC REPORT #: **75647**
CHRIS CODE: **NCC**
CAS #: **NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **TERATE 1-3-1 / 3000 GALLON(S)**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **1 GALLON(S)**

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

TRAINS DETAILS

- NO TRAIN DETAILS REPORTED -

TRAIN DERAILED UNITS

- NO TRAIN DERAILED UNITS REPORTED -

VESSEL DETAILS

- NO VESSEL DETAILS REPORTED -

MOBILE DETAILS

- NO MOBILE DETAILS REPORTED -

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Air Permitted Facilities (AIRS)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 518433AIRS
PRIMARY FACILITY ID#: 518433
PRIMARY FACILITY (PF) NAME: UPMC HAMOT/ERIE
ADDRESS: 201 STATE ST
ERIE, PA 16550-0002
COUNTY: ERIE
STATUS: ACTIVE

AQ PERMIT(S)

AQ PERMIT ID:
AUTHORIZATION ID: 1154250
CURRENT PERMIT IND:
TITLE V IND:
ACTIVE IND:

AQ SITE(S)

MUNICIPALITY NAME: ERIE
MUNICIPALITY TYPE: CITY
ACTIVE IND: YES
NAICS CODE: 622110
NAICS DESCRIPTION: GENERAL MEDICAL AND
SURGICAL HOSPITALS

SITE EMISSIONS

CO TPY: 50.9496
NOx TPY: 84.4586
PART TPY: 2.1383
PM10 TPY: 4.6444
PM2.5 TPY: 2.897
SOx TPY: 1.8713
VOC TPY: 3.9309

SITE EMISSIONS FOR A GIVEN YEAR

PRODUCTION REPORT IND: NO
ACTIVE IND: YES
TITLE V IND: NO
YEAR: 2014
CO TPY: NOT REPORTED
NOx TPY: NOT REPORTED
PART TPY: NOT REPORTED
PM10 TPY: NOT REPORTED
PM2.5 TPY: NOT REPORTED
SOx TPY: NOT REPORTED

Air Permitted Facilities (AIRS)

VOC TPY: **NOT REPORTED**

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Enforcement and Compliance History Information (ECHOR03)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID: 110001058621

REGISTRY ID: 110001058621

NAME: UPMC HAMOT/ERIE

ADDRESS: 201 STATE ST
ERIE, PA 16550

COUNTY: ERIE

FACILITY LINK: [Facility Detail Report](#)

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Facility Registry System (FRSPA)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: 110001058621

NAME: UPMC HAMOT/ERIE

LOCATION ADDRESS: 201 STATE ST
ERIE, PA 16550-0002

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

HAMOT MED CTR/ERIE

CLINICAL PATHOLOGY INSTITUTE

HAMOT MEDICAL CENTER

UPMC HAMOT MEDICAL CTR

PROGRAM/S LISTED FOR THIS FACILITY

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

EIS - EIS

ICIS - INTEGRATED COMPLIANCE INFORMATION SYSTEM

AIR - AIR

AIRS/AFS - AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIRS FACILITY SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

8062 - GENERAL MEDICAL AND SURGICAL HOSPITALS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

622110 - GENERAL MEDICAL AND SURGICAL HOSPITALS.

62211 - GENERAL MEDICAL AND SURGICAL HOSPITALS

622110 - GENERAL MEDICAL AND SURGICAL HOSPITALS.

622110 - GENERAL MEDICAL AND SURGICAL HOSPITALS.

722310 - FOOD SERVICE CONTRACTORS.

622110 - GENERAL MEDICAL AND SURGICAL HOSPITALS.

622110 - GENERAL MEDICAL AND SURGICAL HOSPITALS.

622110 - GENERAL MEDICAL AND SURGICAL HOSPITALS.

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622110 - GENERAL MEDICAL AND SURGICAL HOSPITALS.

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Facility Registry System (FRSPA)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: 110060032156

NAME: UPMC HAMOT MEDICAL CTR

LOCATION ADDRESS: 201 STATE ST
ERIE, PA 16550

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: YES

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

UPMC HAMOT MEDICAL CTR

PROGRAM/S LISTED FOR THIS FACILITY

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSPA)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: 110060075528

NAME: HAMOT MED CTR/ERIE

LOCATION ADDRESS: 201 STATE ST
ERIE, PA 16550-0002

COUNTY: ERIE

EPA REGION: 03

FEDERAL FACILITY: YES

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

HAMOT MED CTR/ERIE

PROGRAM/S LISTED FOR THIS FACILITY

PA-EFACTS - PENNSYLVANIA - ENVIRONMENTAL FACILITY APPLICATION COMPLIANCE TRACING SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

8062 - GENERAL MEDICAL AND SURGICAL HOSPITALS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

722310 - FOOD SERVICE CONTRACTORS.

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Integrated Compliance Information System (formerly DOCKETS) (ICIS)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

SITE INFORMATION

GEOSEARCH ID: 110001058621

REGISTRY ID: 110001058621

NAME: **HAMOT MEDICAL CENTER**

ADDRESS: 201 STATE STREET
ERIE PA 16550

STANDARD INDUSTRIAL CLASSIFICATION: **GENERAL MEDICAL AND SURGICAL HOSPITALS**

REGIONAL DOCKETS

CAA-03-2007-0114DA

RELATED ACTIVITIES

- NO RELATED ACTIVITIES REPORTED

VIOLATIONS

CASE NUMBER: 03-2007-0114

RANK ORDER: **NOT REPORTED**

VIOLATION: **VIOLATION OF A PERMIT REQUIREMENT**

CASE IDENTIFIER

CASE NUMBER: 03-2007-0114

FISCAL YEAR: 2007

CASE NAME: **HAMOT MEDICAL CENTER**

ACTIVITY TYPE: **ADMINISTRATIVE - FORMAL**

ACTIVITY STATUS: **FINAL ORDER ISSUED**

ACTIVITY STATUS DATE: 3/13/2007

LEAD: **EPA**

CASE STATUS DATE: 3/13/2007

DOJ DOCKET NUMBER: **NOT REPORTED**

ENFORCEMENT OUTCOME: **NOT REPORTED**

MULTIMEDIA FLAG: **NOT REPORTED**

ENFORCEMENT SUMMARY:

RESPONDENT HAD TO HAVE TRAINED INCINERATION OPERATOR, AND FAILED TO KEEP POLLUTION CONTROL RECORDS UP TO DATE.

ENFORCEMENT TYPE

ENFORCEMENT TYPE: **CAA 113A ADMIN COMPLIANCE ORDER (NON-PENALTY)**

POLLUTANTS CITED

- NO POLLUTION CITED REPORTED

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Municipal Waste Operations (MWO)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: 259524MWO
SITE ID: 3356
FACILITY NAME: UPMC HAMOT
ADDRESS: ERIE COUNTY
ERIE, PA 16507
SITE STATUS: ACTIVE
ORGANIZATION NAME: HAMOT MEDICAL CENTER
CLIENT NAME: HAMOT MEDICAL CENTER
CLIENT ID: 51652
PRIMARY FACILITY ID: 259524
PRIMARY FACILITY NAME: HAMOT MEDICAL CENTER - INCINERATOR
FACILITY TYPE: MUNICIPAL WASTE OPERATION
PRIMARY FACILITY STATUS: ACTIVE
PRIMARY FACILITY KIND: UNAVAILABLE
CLIENT RELATIONSHIP: OWNER
OTHER FACILITY ID: 400626

FACILITY DETAILS

SUB-FACILITY ID: 250558
SUB-FACILITY NAME: HAMOT MEDICAL CENTER - INCINERATOR
SUB-FACILITY TYPE: RESOURCE RECOVERY
SUB-FACILITY STATUS: ACTIVE
COMPLIANCE: YES

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Resource Conservation & Recovery Act - Generator (RCRAGR03)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAD987342441

NAME: UPMC HAMOT MEDICAL CTR

ADDRESS: 201 STATE ST

ERIE, PA 16550

CONTACT NAME: JEFFERY G DEBELLO

CONTACT ADDRESS: 201 STATE ST

ERIE PA 16550

CONTACT PHONE: 814-877-2685

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 08/07/2012

OWNER TYPE: PRIVATE

OWNER NAME: HAMOT MEDICAL CENTER

OPERATOR TYPE: PRIVATE

OPERATOR NAME: HAMOT MEDICAL CENTER

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

JEFF DEBELLO

FAC MGR

01/25/2010

INDUSTRY CLASSIFICATION (NAICS)

621511 - MEDICAL LABORATORIES

62211 - GENERAL MEDICAL AND SURGICAL HOSPITALS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: SMALL QUANTITY GENERATOR LAST UPDATED DATE: 08/20/2012

SUBJECT TO CORRECTIVE ACTION UNIVERSE: NO

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: NO

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: NO

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: NO

CORRECTIVE ACTION WORKLOAD UNIVERSE: NO

IMPORTER: NO

UNDERGROUND INJECTION: NO

MIXED WASTE GENERATOR: NO

UNIVERSAL WASTE DESTINATION FACILITY: NO

RECYCLER: NO

TRANSFER FACILITY: NO

TRANSPORTER: NO

USED OIL FUEL BURNER: NO

ONSITE BURNER EXEMPTION: NO

USED OIL PROCESSOR: NO

FURNACE EXEMPTION: NO

USED OIL FUEL MARKETER TO BURNER: NO

USED OIL REFINER: NO

SPECIFICATION USED OIL MARKETER: NO

USED OIL TRANSFER FACILITY: NO

USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

02/11/2002	FCI FOCUSED COMPLIANCE INSPECTION
03/09/2010	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/11/1997	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/25/2002	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
06/18/2014	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
06/23/2004	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
06/26/2007	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
07/23/2010	NRR NON-FINANCIAL RECORD REVIEW

Resource Conservation & Recovery Act - Generator (RCRAGR03)

07/30/2003 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
08/04/2005 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
08/23/2001 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
09/12/2000 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS

07/30/2003 262.C GENERATORS - PRE-TRANSPORT
07/30/2003 262.D GENERATORS - RECORDS/REPORTING
04/25/2002 262.C GENERATORS - PRE-TRANSPORT
02/11/2002 262.A GENERATORS - GENERAL
09/12/2000 262.C GENERATORS - PRE-TRANSPORT
04/11/1997 262.B GENERATORS - MANIFEST

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE

D001 IGNITABLE WASTE
D002 CORROSIVE WASTE
D006 CADMIUM
D008 LEAD
D009 MERCURY
D011 SILVER
F003 THE FOLLOWING SPENT NON-HALOGENATED 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 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.
F005 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.

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Registered Storage Tanks (RST)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-04648
FACILITY ID#: 25-04648
NAME: HAMOT MED CTR
ADDRESS: 201 STATE ST
ERIE, PA 16550-0002
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 3356
SEQUENCE NUMBER: 643456 - 001
CAPACITY(IN GALLONS): 15000
DATE INSTALLED: 11/1/1989
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 3356
SEQUENCE NUMBER: 643457 - 002
CAPACITY(IN GALLONS): 15000
DATE INSTALLED: 11/1/1989
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 3356
SEQUENCE NUMBER: 643458 - 003
CAPACITY(IN GALLONS): 15000
DATE INSTALLED: 11/1/1989
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Spills Listing (SPILLS)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 235640
COMPLAINT ID#: 235640
ADDRESS: 201 STATE STREET PA 16501
NOT REPORTED, PA
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY
LOCATION: 201 STATE STREET PA 16501

FACILITY DETAIL(S)

COMPLAINT RECEIVED DATE: 10/16/03
COMPLAINT DESCRIPTION: WATER MAIN BREAK
MATERIAL INVOLVED: NONE
SUBSTANCE: NOT REPORTED

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Solid Waste Facilities (SWF)

MAP ID# 16

Distance from Property: 0.019 mi. (100 ft.) ENE
Elevation: 636 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 259524
PRIMARY FACILITY ID#: 259524
NAME: HAMOT MEDICAL CENTER - INCINERATOR
ADDRESS: 201 STATE ST
ERIE, PA 16550-0002
COUNTY: ERIE
MUNICIPALITY NAME: ERIE
STATUS: ACTIVE

FACILITY DETAIL(S)

PROGRAM OTHER ID: 400626	SUB FACILITY ID: 250558
AVG DAILY VOLUME: NOT REPORTED	SUB FACILITY NAME: HAMOT MEDICAL CENTER - INCINERATOR
MAX DAILY VOLUME: NOT REPORTED	SUB FACILITY TYPE: MWRR
PERMITTED ACRES: 0	SUB FACILITY STATUS: ACTIVE
DATE CLOSURE: NOT REPORTED	
ATTRIBUTE DESCRIPTION: INCINERATOR	
COMMENTS: NOT REPORTED	

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Registered Storage Tanks (RST)

MAP ID# 17

Distance from Property: 0.03 mi. (158 ft.) WSW
Elevation: 637 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-91013
FACILITY ID#: 25-91013
NAME: HEALTHSOUTH GREAT LAKES REHAB HOSP
ADDRESS: 143 E 2ND ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

SITE ID: 471967	CLIENT: 101592
REGISTRATION EXPIRATION DATE: 12/4/2017	CLIENT NAME: HEALTHSOUTH ERIE
SEQUENCE NUMBER: 645825 - 001	ADDRESS: 143 E 2ND ST
TANK TYPE: UNDERGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: 6/1/1986	ERIE, PA 16507
CAPACITY: 2000	
SUBSTANCE: DIESEL FUEL	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: PERMIT BY RULE	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: 10/31/2016	
NEXT INSPECTION DUE: FACILITY OPERATION INSPECTION (UST ONLY) - 10/31/2019	

CLOSED STORAGE TANK(S)

SITE ID: 471967
SEQUENCE NUMBER: 645825 - 001
CAPACITY(IN GALLONS): 2000
DATE INSTALLED: 6/1/1986
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

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Resource Conservation & Recovery Act - Non-Generator (RCRANGR03)

MAP ID# 18

Distance from Property: 0.041 mi. (216 ft.) SSE
Elevation: 634 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAD005030200
NAME: NIAGARA MACH
ADDRESS: 325 W FRONT ST
ERIE, PA 16507-1227

OWNER TYPE: NOT REPORTED
OWNER NAME: NOT REPORTED
OPERATOR TYPE: NOT REPORTED
OPERATOR NAME: NOT REPORTED

CONTACT NAME: GARY CHRISTENSEN
CONTACT ADDRESS: NOT REPORTED

CONTACT PHONE: 814-455-8838
NON-NOTIFIER: NOT A NON-NOTIFIER
DATE RECEIVED BY AGENCY: 12/20/2016

CERTIFICATION

CERTIFICATION NAME: GARY R CHRISTENSEN
CERTIFICATION TITLE: PRESIDENT
CERTIFICATION SIGNED DATE: 04/29/2003

INDUSTRY CLASSIFICATION (NAICS)

33271 - MACHINE SHOPS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **01/18/2017**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**
IMPORTER: **NO** UNDERGROUND INJECTION: **NO**
MIXED WASTE GENERATOR: **NO** UNIVERSAL WASTE DESTINATION FACILITY: **NO**
RECYCLER: **NO** TRANSFER FACILITY: **NO**
TRANSPORTER: **NO** USED OIL FUEL BURNER: **NO**
ONSITE BURNER EXEMPTION: **NO** USED OIL PROCESSOR: **NO**
FURNACE EXEMPTION: **NO** USED OIL FUEL MARKETER TO BURNER: **NO**
USED OIL REFINER: **NO** SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSFER FACILITY: **NO** USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

04/09/2003 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS - **NO VIOLATIONS REPORTED** -

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED** -

HAZARDOUS WASTE

D002 CORROSIVE WASTE

UNIVERSAL WASTE - **NO UNIVERSAL WASTE REPORTED** -

CORRECTIVE ACTION AREA - **NO CORRECTIVE ACTION AREA INFORMATION REPORTED** -

Resource Conservation & Recovery Act - Non-Generator (RCRANGR03)

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Leaking Registered Storage Tanks (LRST)

MAP ID# 19

Distance from Property: 0.047 mi. (248 ft.) S
Elevation: 635 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592776
FACILITY ID#: 592776
NAME: PA SOLDIERS & SAILORS HOME
ADDRESS: 560 E 3RD ST
ERIE, PA 16512
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-90895 CLIENT ID: 13067
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: PA DEPT OF MILITARY & VETERANS AFFAIRS
INCIDENT ID: 22155
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: PA SOLDIER'S & SAILOR'S HOME
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 4/14/1994
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

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Registered Storage Tanks (RST)

MAP ID# 19

Distance from Property: 0.047 mi. (248 ft.) S
Elevation: 635 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-90895
FACILITY ID#: 25-90895
NAME: PA SOLDIERS & SAILORS HOME
ADDRESS: 560 E 3RD ST
ERIE, PA 16512
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 574413
SEQUENCE NUMBER: 645760 - 001
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: 1/1/1965
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574413
SEQUENCE NUMBER: 645761 - 001A
CAPACITY(IN GALLONS): 300
DATE INSTALLED: 1/1/1965
TANK TYPE: ABOVEGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574413
SEQUENCE NUMBER: 645762 - 002
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: 5/1/1994
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574413**

SEQUENCE NUMBER: **943571 - 003**

CAPACITY(IN GALLONS): **1000**

DATE INSTALLED: **12/11/2006**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Leaking Registered Storage Tanks (LRST)

MAP ID# 20

Distance from Property: 0.062 mi. (327 ft.) NNW
Elevation: 575 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 592263
FACILITY ID#: 592263
NAME: ERIE SAND & GRAVEL CO
ADDRESS: FOOT OF SASSAFRAS ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-09512 CLIENT ID: 189803
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: ERIE SAND & GRAVEL CO
INCIDENT ID: 22158
INCIDENT TYPE: ABOVEGROUND STORAGE TANK SYSTEM
INCIDENT DESCRIPTION: ERIE SAND AND GRAVEL COMPANY
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 12/28/1999
STATUS DESCRIPTION: INACTIVE
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: DIESEL FUEL
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: CORRECTIVE ACTION/TANK CLOSURE REQUIREMENTS REMAIN OUTSTANDING FOR INCIDENTS IN INACTIVE STATUS.

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Resource Conservation & Recovery Act - Generator (RCRAGR03)

MAP ID# 20

Distance from Property: 0.062 mi. (327 ft.) NNW
Elevation: 575 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAR000028324

NAME: ERIE SAND & GRAVEL

ADDRESS: 2 E BAY DR/PORT ACCESS RD
ERIE, PA 16507

CONTACT NAME: TOD EAGLETON

CONTACT ADDRESS: PO BOX 179
ERIE PA 16512

CONTACT PHONE: 814-453-6721

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 03/14/1997

CERTIFICATION - NO CERTIFICATION REPORTED -

INDUSTRY CLASSIFICATION (NAICS) - NO NAICS INFORMATION REPORTED -

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: SMALL QUANTITY GENERATOR LAST UPDATED DATE: 09/15/2000

SUBJECT TO CORRECTIVE ACTION UNIVERSE: NO

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: NO

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: NO

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: NO

CORRECTIVE ACTION WORKLOAD UNIVERSE: NO

IMPORTER: NO

UNDERGROUND INJECTION: NO

MIXED WASTE GENERATOR: NO

UNIVERSAL WASTE DESTINATION FACILITY: NO

RECYCLER: NO

TRANSFER FACILITY: NO

TRANSPORTER: NO

USED OIL FUEL BURNER: NO

ONSITE BURNER EXEMPTION: NO

USED OIL PROCESSOR: NO

FURNACE EXEMPTION: NO

USED OIL FUEL MARKETER TO BURNER: NO

USED OIL REFINER: NO

SPECIFICATION USED OIL MARKETER: NO

USED OIL TRANSFER FACILITY: NO

USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -

VIOLATIONS - NO VIOLATIONS REPORTED -

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE

D001 IGNITABLE WASTE

D006 CADMIUM

D008 LEAD

D018 BENZENE

D035 METHYL ETHYL KETONE

D039 TETRACHLOROETHYLENE

D040 TRICHLOROETHYLENE

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

Resource Conservation & Recovery Act - Generator (RCRAGR03)

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -
CORRECTIVE ACTION EVENT
NO CORRECTIVE ACTION EVENT(S) REPORTED

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Registered Storage Tanks (RST)

MAP ID# 20

Distance from Property: 0.062 mi. (327 ft.) NNW
Elevation: 575 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-09512
FACILITY ID#: 25-09512
NAME: ERIE SAND & GRAVEL CO
ADDRESS: FOOT OF SASSAFRAS ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 512842
SEQUENCE NUMBER: 643699 - 001A
CAPACITY(IN GALLONS): 25000
DATE INSTALLED: 5/1/1974
TANK TYPE: ABOVEGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 512842
SEQUENCE NUMBER: 643700 - 002A
CAPACITY(IN GALLONS): 10000
DATE INSTALLED: 5/1/1974
TANK TYPE: ABOVEGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 512842
SEQUENCE NUMBER: 643701 - 003A
CAPACITY(IN GALLONS): 4000
DATE INSTALLED: 5/1/1974
TANK TYPE: ABOVEGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **512842**

SEQUENCE NUMBER: **643702 - 004A**

CAPACITY(IN GALLONS): **3000**

DATE INSTALLED: **5/1/1974**

TANK TYPE: **ABOVEGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **512842**

SEQUENCE NUMBER: **643703 - 005A**

CAPACITY(IN GALLONS): **257146**

DATE INSTALLED: **5/1/1954**

TANK TYPE: **ABOVEGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Registered Storage Tanks (RST)

MAP ID# 20

Distance from Property: 0.062 mi. (327 ft.) NNW
Elevation: 575 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-36244

FACILITY ID#: 25-36244

NAME: ERIE SAND & GRAVEL

ADDRESS: 2 E BAY DR

ERIE, PA 16507

COUNTY: ERIE

MUNICIPALITY NAME: NOT REPORTED

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 574290

SEQUENCE NUMBER: 645158 - 001A

CAPACITY(IN GALLONS): 400

DATE INSTALLED: 6/7/1994

TANK TYPE: ABOVEGROUND STORAGE TANK

SUBSTANCE TYPE: NOT REPORTED

SUBSTANCE DESCRIPTION: NOT REPORTED

OTHER SUBSTANCE: NOT REPORTED

CHEMICAL NUMBER: NOT REPORTED

CHEMICAL NAME: NOT REPORTED

SITE ID: 574290

SEQUENCE NUMBER: 645159 - 002A

CAPACITY(IN GALLONS): 400

DATE INSTALLED: 6/7/1994

TANK TYPE: ABOVEGROUND STORAGE TANK

SUBSTANCE TYPE: NOT REPORTED

SUBSTANCE DESCRIPTION: NOT REPORTED

OTHER SUBSTANCE: NOT REPORTED

CHEMICAL NUMBER: NOT REPORTED

CHEMICAL NAME: NOT REPORTED

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Registered Storage Tanks (RST)

MAP ID# 20

Distance from Property: 0.062 mi. (327 ft.) NNW
Elevation: 575 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-36557
FACILITY ID#: 25-36557
NAME: ERIE INTL MARINE TERM
ADDRESS: 2 E BAY DR
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

SITE ID: 574292	CLIENT: 142538
REGISTRATION EXPIRATION DATE: 12/4/2019	CLIENT NAME: MOUNTFORT TERM LTD
SEQUENCE NUMBER: 645164 - 001A	ADDRESS: PO BOX 1000
TANK TYPE: ABOVEGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: 9/14/1994	ERIE, PA 16512-1000
CAPACITY: 12000	
SUBSTANCE: DIESEL FUEL	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: OPR	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: 2/11/2015	
NEXT INSPECTION DUE: IN SERVICE (AST ONLY) - 2/11/2025	

SITE ID: 574292	CLIENT: 142538
REGISTRATION EXPIRATION DATE: 12/4/2019	CLIENT NAME: MOUNTFORT TERM LTD
SEQUENCE NUMBER: 645165 - 002A	ADDRESS: PO BOX 1000
TANK TYPE: ABOVEGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: 9/14/1994	ERIE, PA 16512-1000
CAPACITY: 12000	
SUBSTANCE: DIESEL FUEL	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: OPR	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: 2/11/2015	
NEXT INSPECTION DUE: IN SERVICE (AST ONLY) - 2/11/2025	

CLOSED STORAGE TANK(S)

NO CLOSED STORAGE TANK DATA REPORTED FOR THIS FACILITY

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Registered Storage Tanks (RST)

MAP ID# 21

Distance from Property: 0.063 mi. (333 ft.) SSW
Elevation: 592 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-03219
FACILITY ID#: 25-03219
NAME: ERIE CITY SOMMERHEIN DR
ADDRESS: FOOT OF CHESTNUT ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: NOT REPORTED

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 574034
SEQUENCE NUMBER: 643415 - 001
CAPACITY(IN GALLONS): 10000
DATE INSTALLED: 1/1/1935
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

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Leaking Registered Storage Tanks (LRST)

MAP ID# 22

Distance from Property: 0.067 mi. (354 ft.) NE
Elevation: 631 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592521
FACILITY ID#: 592521
NAME: NFG ERIE SVC CTR
ADDRESS: 225 WAYNE ST
ERIE, PA 16507-1741
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-27073 CLIENT ID: 203907
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: NATL FUEL GAS DISTR CORP
INCIDENT ID: 22119
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: NATIONAL FUEL GAS, WAYNE ST, UST SITE
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 11/5/1998
STATUS DATE: 9/18/2017
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

PROGRAM OTHER ID: 25-27073 CLIENT ID: 203907
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: NATL FUEL GAS DISTR CORP
INCIDENT ID: 47417
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: DURING A SERVICE CALL, PRODUCT LEAK OBSERVED BETWEEN FLEX PIPE AND COUPLING
SUSPECT DATE: 11/25/2014
CONFIRMED DATE: 11/25/2014
STATUS DATE: 9/18/2017
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: TANK INSTALLER/INSPECTOR
RELEASE DISCOVERED/FOUND: ROUTINE LEAK DETECTION
SOURCE/CAUSE OF RELEASE: PIPING SYSTEM UG REGULATED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: GROUND WATER
SUBSTANCE: UNLEADED GASOLINE

Leaking Registered Storage Tanks (LRST)

CASRN CODE: **NOT REPORTED**
CHEMICAL: **NOT REPORTED**
COMMENT: **NOT REPORTED**

PROGRAM OTHER ID: **25-27073** CLIENT ID: **203907**
REGION: **EP NW RGNL OFF MEADVILLE** CLIENT / OWNER: **NATL FUEL GAS DISTR CORP**
INCIDENT ID: **47417**
INCIDENT TYPE: **UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM**
INCIDENT DESCRIPTION: **DURING A SERVICE CALL, PRODUCT LEAK OBSERVED BETWEEN FLEX PIPE AND COUPLING**
SUSPECT DATE: **11/25/2014**
CONFIRMED DATE: **11/25/2014**
STATUS DATE: **9/18/2017**
STATUS DESCRIPTION: **CLEANUP COMPLETED**
SOURCE OF NOTIFICATION: **TANK INSTALLER/INSPECTOR**
RELEASE DISCOVERED/FOUND: **ROUTINE LEAK DETECTION**
SOURCE/CAUSE OF RELEASE: **PIPING SYSTEM UG REGULATED**
TANK: **NOT REPORTED**
ENVIRONMENTAL IMPACT DESCRIPTION: **SOIL**
SUBSTANCE: **NOT REPORTED**
CASRN CODE: **NOT REPORTED**
CHEMICAL: **NOT REPORTED**
COMMENT: **NOT REPORTED**

PROGRAM OTHER ID: **25-27073** CLIENT ID: **203907**
REGION: **EP NW RGNL OFF MEADVILLE** CLIENT / OWNER: **NATL FUEL GAS DISTR CORP**
INCIDENT ID: **48859**
INCIDENT TYPE: **UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM**
INCIDENT DESCRIPTION: **CONTAMINATION UNDER DISPENSER OBSERVED DURING ACTIVITIES ASSOCIATED WITH 2 UST & 2 DISPENSER REMOVALS.**
SUSPECT DATE: **9/8/2015**
CONFIRMED DATE: **9/8/2015**
STATUS DATE: **9/18/2017**
STATUS DESCRIPTION: **CLEANUP COMPLETED**
SOURCE OF NOTIFICATION: **TANK INSTALLER/INSPECTOR**
RELEASE DISCOVERED/FOUND: **DURING CLOSURE**
SOURCE/CAUSE OF RELEASE: **DISPENSER/DISPENSING EQUIPMENT**
TANK: **NOT REPORTED**
ENVIRONMENTAL IMPACT DESCRIPTION: **SOIL**
SUBSTANCE: **UNLEADED GASOLINE**
CASRN CODE: **NOT REPORTED**
CHEMICAL: **NOT REPORTED**
COMMENT: **NOT REPORTED**

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Resource Conservation & Recovery Act - Generator (RCRAGR03)

MAP ID# 22

Distance from Property: 0.067 mi. (354 ft.) NE
Elevation: 631 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAD987393543

NAME: NATIONAL FUEL GAS DISTR CO ERIE SVC CTR

ADDRESS: 225 WAYNE ST

ERIE, PA 16507

OWNER TYPE: PRIVATE

OWNER NAME: NATIONAL FUEL GAS DIST CORP

OPERATOR TYPE: PRIVATE

OPERATOR NAME: NATIONAL FUEL GAS DISTR CORP

CONTACT NAME: JOSEPH HARTLEB

CONTACT ADDRESS: 225 WAYNE ST

ERIE PA 16507

CONTACT PHONE: 814-871-8949

NON-NOTIFIER: E - INITIALLY A NON-NOTIFIER, SUBSEQUENTLY DETERMINED TO BE EXEMPT FROM REQUIREMENTS TO NOTIFY.

DATE RECEIVED BY AGENCY: 10/29/2003

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

CONRAD DONELSON

SUPERINTENDENT

10/24/2003

INDUSTRY CLASSIFICATION (NAICS)

48621 - PIPELINE TRANSPORTATION OF NATURAL GAS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: 12/18/2003

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - **NO EVALUATIONS REPORTED** -

VIOLATIONS - **NO VIOLATIONS REPORTED** -

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED** -

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**

D003 **REACTIVE WASTE**

UNIVERSAL WASTE - **NO UNIVERSAL WASTE REPORTED** -

Resource Conservation & Recovery Act - Generator (RCRAGR03)

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Registered Storage Tanks (RST)

MAP ID# 22

Distance from Property: 0.067 mi. (354 ft.) NE
Elevation: 631 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-27073
FACILITY ID#: 25-27073
NAME: NFG ERIE SVC CTR
ADDRESS: 225 WAYNE ST
ERIE, PA 16507-1741
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

SITE ID: 465286	CLIENT: 203907
REGISTRATION EXPIRATION DATE: 12/4/2019	CLIENT NAME: NATL FUEL GAS DISTR CORP
SEQUENCE NUMBER: 1182558 - 002A	ADDRESS: 6363 MAIN ST
TANK TYPE: ABOVEGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: 7/24/2015	WILLIAMSVILLE, NY 14221-5855
CAPACITY: 6000	
SUBSTANCE: GASOLINE	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: OPR	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: NO INSPECTION DATE	
NEXT INSPECTION DUE: IN SERVICE (AST ONLY) - 7/24/2025	

SITE ID: 465286	CLIENT: 203907
REGISTRATION EXPIRATION DATE: NOT REPORTED	CLIENT NAME: NATL FUEL GAS DISTR CORP
SEQUENCE NUMBER: 644909 - 001	ADDRESS: 10 LAFAYETTE SQ
TANK TYPE: UNDERGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: NOT REPORTED	BUFFALO, NY 14203-1826
CAPACITY: 10000	
SUBSTANCE: GASOLINE	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: PERMIT BY RULE	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: 4/21/2014	
NEXT INSPECTION DUE: FACILITY OPERATION INSPECTION (UST ONLY) - 4/21/2017	

SITE ID: 465286	CLIENT: 203907
REGISTRATION EXPIRATION DATE: 12/4/2019	CLIENT NAME: NATL FUEL GAS DISTR CORP
SEQUENCE NUMBER: 644910 - 001A	ADDRESS: 6363 MAIN ST
TANK TYPE: ABOVEGROUND STORAGE TANK	ADDRESS2: NOT REPORTED

Registered Storage Tanks (RST)

DATE INSTALLED: 10/1/1993
CAPACITY: 2000
SUBSTANCE: DIESEL FUEL
TANK STATUS: CURRENTLY IN USE
PERMIT TYPE: OPR
PERMIT STATUS: APPROVED
DATE LAST INSPECTION: NO INSPECTION DATE
NEXT INSPECTION DUE: NOT REPORTED

WILLIAMSVILLE, NY 14221-5855

SITE ID: 465286
REGISTRATION EXPIRATION DATE: NOT REPORTED
SEQUENCE NUMBER: 644911 - 002
TANK TYPE: UNDERGROUND STORAGE TANK
DATE INSTALLED: NOT REPORTED
CAPACITY: 10000
SUBSTANCE: GASOLINE
TANK STATUS: CURRENTLY IN USE
PERMIT TYPE: PERMIT BY RULE
PERMIT STATUS: APPROVED
DATE LAST INSPECTION: 4/21/2014
NEXT INSPECTION DUE: FACILITY OPERATION INSPECTION (UST ONLY) - 4/21/2017

CLIENT: 203907
CLIENT NAME: NATL FUEL GAS DISTR CORP
ADDRESS: 10 LAFAYETTE SQ
ADDRESS2: NOT REPORTED
BUFFALO, NY 14203-1826

CLOSED STORAGE TANK(S)

SITE ID: 465286
SEQUENCE NUMBER: 644909 - 001
CAPACITY(IN GALLONS): 10000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 465286
SEQUENCE NUMBER: 644911 - 002
CAPACITY(IN GALLONS): 10000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Voluntary Cleanup Sites (VCP)

MAP ID# 22

Distance from Property: 0.067 mi. (354 ft.) NE
Elevation: 631 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: 625568

FACILITY ID: 625568

NAME: NATL FUEL GAS

ADDRESS: 225 WAYNE ST
ERIE, PA 16507-1741

REMEDIATION STANDARD: SITE-SPECIFIC STANDARD

REGION: NORTHWEST REGION

LRP ACTIVITY: 36991

STATUS: IN PROGRESS

NOTICE OF INTENT TO REMEDIATE: NOT REPORTED

FACILITY DETAILS

CONTAMINANT CATEGORY: NOT REPORTED

ACTIVITY AND USE LIMITATION: NOT REPORTED

APPROVED DATE: 10/17/1996

MEDIA: NOT REPORTED

CONTAMINANT CATEGORY: NOT REPORTED

ACTIVITY AND USE LIMITATION: NOT REPORTED

APPROVED DATE: NOT REPORTED

MEDIA: NOT REPORTED

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Voluntary Cleanup Sites (VCP)

MAP ID# 22

Distance from Property: 0.067 mi. (354 ft.) NE
Elevation: 631 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: 631097

FACILITY ID: 631097

NAME: NATL FUEL GAS ERIE SVC CENTER

ADDRESS: 225 WAYNE ST
ERIE, PA 16507-1741

REMEDATION STANDARD: SITE-SPECIFIC STANDARD

REGION: NORTHWEST REGION

LRP ACTIVITY: 29741

STATUS: COMPLETED

NOTICE OF INTENT TO REMEDIATE: NOT REPORTED

FACILITY DETAILS

CONTAMINANT CATEGORY: INORGANICS

ACTIVITY AND USE LIMITATION: YES

APPROVED DATE: 06/27/2006

MEDIA: SOIL

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Resource Conservation & Recovery Act - Non-Generator (RCRANGR03)

MAP ID# 23

Distance from Property: 0.071 mi. (375 ft.) S
Elevation: 628 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAD074991878

NAME: MEDI-CENTER HOSPITAL

ADDRESS: 137 W 2ND ST

ERIE, PA 16503

CONTACT NAME: PATRICIA LOJEWSKI

CONTACT ADDRESS: 137 W 2ND STREET

ERIE PA 16507

CONTACT PHONE: 814-453-5602

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 06/27/1980

CERTIFICATION - NO CERTIFICATION REPORTED -

INDUSTRY CLASSIFICATION (NAICS)

62211 - GENERAL MEDICAL AND SURGICAL HOSPITALS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **09/15/2000**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -

VIOLATIONS - NO VIOLATIONS REPORTED -

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Resource Conservation & Recovery Act - Non-Generator (RCRANGR03)

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Resource Conservation & Recovery Act - Generator (RCRAGR03)

MAP ID# 24

Distance from Property: 0.082 mi. (433 ft.) ENE
Elevation: 645 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAR000546853

NAME: FAMILY DOLLAR STORE NO 3779

ADDRESS: 856 E 6TH ST

ERIE, PA 16507

CONTACT NAME: KELVIN DAVIS

CONTACT ADDRESS: PO BOX 1017

CHARLOTTE NC 28201

CONTACT PHONE: 704-708-1649

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 09/30/2014

OWNER TYPE: PRIVATE

OWNER NAME: FAMILY DOLLAR STORES

OPERATOR TYPE: PRIVATE

OPERATOR NAME: FAMILY DOLLAR STORES

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

DAVID R STYKA

VP

04/15/2014

INDUSTRY CLASSIFICATION (NAICS)

45299 - ALL OTHER GENERAL MERCHANDISE STORES

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: 10/14/2014

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - **NO EVALUATIONS REPORTED -**

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 IGNITABLE WASTE

D004 ARSENIC

D005 BARIUM

D007 CHROMIUM

D008 LEAD

Resource Conservation & Recovery Act - Generator (RCRAGR03)

D009 MERCURY
D010 SELENIUM
D011 SILVER
D016 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
D024 M-CRESOL
D035 METHYL ETHYL KETONE
U002 2-PROPANONE (I)
U002 ACETONE (I)

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Leaking Registered Storage Tanks (LRST)

MAP ID# 25

Distance from Property: 0.097 mi. (512 ft.) NNE
Elevation: 586 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 592189
FACILITY ID#: 592189
NAME: ERIE WWTP
ADDRESS: 68 PORT ACCESS RD
ERIE, PA 16507-2204
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-03217 CLIENT ID: 81865
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: ERIE CITY SEW AUTH ERIE CNTY
INCIDENT ID: 22038
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: ERIE WASTEWATER TREATMENT PLANT
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 8/15/1997
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: DIESEL FUEL
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

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Municipal Waste Operations (MWO)

MAP ID# 25

Distance from Property: 0.097 mi. (512 ft.) NNE
Elevation: 586 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: 660904MWO
SITE ID: 261499
FACILITY NAME: ERIE CITY STP
ADDRESS: ERIE COUNTY
ERIE, PA 16507
SITE STATUS: ACTIVE
ORGANIZATION NAME: ERIE CITY SEW AUTH ERIE CNTY
CLIENT NAME: ERIE CITY SEW AUTH ERIE CNTY
CLIENT ID: 81865
PRIMARY FACILITY ID: 660904
PRIMARY FACILITY NAME: ERIE CITY YARD WASTE COMPOST FACILITY
FACILITY TYPE: MUNICIPAL WASTE OPERATION
PRIMARY FACILITY STATUS: ACTIVE
PRIMARY FACILITY KIND: UNAVAILABLE
CLIENT RELATIONSHIP: OWNER
OTHER FACILITY ID: 660904

FACILITY DETAILS

SUB-FACILITY ID: 839375
SUB-FACILITY NAME: ERIE CITY YARD WASTE COMPOSTING FACILITY
SUB-FACILITY TYPE: COMPOSTING
SUB-FACILITY STATUS: ACTIVE
COMPLIANCE: YES

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Registered Storage Tanks (RST)

MAP ID# 25

Distance from Property: 0.097 mi. (512 ft.) NNE
Elevation: 586 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-03217
FACILITY ID#: 25-03217
NAME: ERIE WWTP
ADDRESS: 68 PORT ACCESS RD
ERIE, PA 16507-2204
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 261499
SEQUENCE NUMBER: 643407 - 001
CAPACITY(IN GALLONS): 15000
DATE INSTALLED: 12/1/1973
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 261499
SEQUENCE NUMBER: 643408 - 001A
CAPACITY(IN GALLONS): 10000
DATE INSTALLED: 1/1/1973
TANK TYPE: ABOVEGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 261499
SEQUENCE NUMBER: 643409 - 002
CAPACITY(IN GALLONS): 15000
DATE INSTALLED: 12/1/1973
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **261499**

SEQUENCE NUMBER: **643410 - 002A**

CAPACITY(IN GALLONS): **10000**

DATE INSTALLED: **1/1/1980**

TANK TYPE: **ABOVEGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **261499**

SEQUENCE NUMBER: **643411 - 003**

CAPACITY(IN GALLONS): **15000**

DATE INSTALLED: **12/1/1973**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **261499**

SEQUENCE NUMBER: **643412 - 003A**

CAPACITY(IN GALLONS): **20000**

DATE INSTALLED: **1/1/1973**

TANK TYPE: **ABOVEGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **261499**

SEQUENCE NUMBER: **643413 - 004**

CAPACITY(IN GALLONS): **5000**

DATE INSTALLED: **12/1/1954**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

Registered Storage Tanks (RST)

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **261499**

SEQUENCE NUMBER: **643414 - 005**

CAPACITY(IN GALLONS): **5000**

DATE INSTALLED: **12/1/1954**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Registered Storage Tanks (RST)

MAP ID# 25

Distance from Property: 0.097 mi. (512 ft.) NNE
Elevation: 586 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-34328
FACILITY ID#: 25-34328
NAME: CITY OF ERIE WWTP
ADDRESS: 68 PORT ACCESS RD
ERIE, PA 16507-2204
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

SITE ID: 261499	CLIENT: 325458
REGISTRATION EXPIRATION DATE: 12/4/2019	CLIENT NAME: CITY OF ERIE WWTP
SEQUENCE NUMBER: 1203892 - 001A	ADDRESS: 68 PORT ACCESS RD
TANK TYPE: ABOVEGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: 1/1/2000	ERIE, PA 16507-2204
CAPACITY: 6085	
SUBSTANCE: HAZARDOUS SUBSTANCE	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: OPR	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: 12/17/2015	
NEXT INSPECTION DUE: IN SERVICE (AST ONLY) - 12/15/2025	

SITE ID: 261499	CLIENT: 325458
REGISTRATION EXPIRATION DATE: 12/4/2019	CLIENT NAME: CITY OF ERIE WWTP
SEQUENCE NUMBER: 1203895 - 002A	ADDRESS: 68 PORT ACCESS RD
TANK TYPE: ABOVEGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: 1/1/2000	ERIE, PA 16507-2204
CAPACITY: 6085	
SUBSTANCE: HAZARDOUS SUBSTANCE	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: OPR	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: 12/17/2015	
NEXT INSPECTION DUE: IN SERVICE (AST ONLY) - 12/15/2025	

CLOSED STORAGE TANK(S)

NO CLOSED STORAGE TANK DATA REPORTED FOR THIS FACILITY

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Leaking Registered Storage Tanks (LRST)

MAP ID# 26

Distance from Property: 0.122 mi. (644 ft.) ESE
Elevation: 653 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592939
FACILITY ID#: 592939
NAME: SIMON BLDG PROD
ADDRESS: 834 E 8TH ST
ERIE, PA 16503
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-91612 CLIENT ID: 62167
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: PA DOT ENG DIST 1 0
INCIDENT ID: 22092
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: PENNDOT SIMON BUILDING PRODUCTS
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 5/23/2001
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

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Registered Storage Tanks (RST)

MAP ID# 26

Distance from Property: 0.122 mi. (644 ft.) ESE
Elevation: 653 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-91612
FACILITY ID#: 25-91612
NAME: SIMON BLDG PROD
ADDRESS: 834 E 8TH ST
ERIE, PA 16503
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 574529
SEQUENCE NUMBER: 646137 - 001
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: 11/29/2000
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574529
SEQUENCE NUMBER: 646138 - 002
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: 11/30/2000
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

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Leaking Registered Storage Tanks (LRST)

MAP ID# 27

Distance from Property: 0.14 mi. (739 ft.) NNW
Elevation: 575 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 592571
FACILITY ID#: 592571
NAME: MCALLISTER MARINA
ADDRESS: E BAY FRONT
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: NOT REPORTED

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-31259 CLIENT ID: 183905
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: NATL GAMING CORP
INCIDENT ID: 22003
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: MCALLISTER MARINA
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 12/4/1995
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

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Registered Storage Tanks (RST)

MAP ID# 27

Distance from Property: 0.14 mi. (739 ft.) NNW
Elevation: 575 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-31259
FACILITY ID#: 25-31259
NAME: MCALLISTER MARINA
ADDRESS: E BAY FRONT
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: NOT REPORTED

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 574264
SEQUENCE NUMBER: 645061 - 001
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574264
SEQUENCE NUMBER: 645062 - 002
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574264
SEQUENCE NUMBER: 645063 - 003
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: 6/21/1995
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574264**

SEQUENCE NUMBER: **645064 - 004**

CAPACITY(IN GALLONS): **2000**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574264**

SEQUENCE NUMBER: **645065 - 005**

CAPACITY(IN GALLONS): **1000**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574264**

SEQUENCE NUMBER: **645066 - 006**

CAPACITY(IN GALLONS): **1000**

DATE INSTALLED: **6/21/1995**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574264**

SEQUENCE NUMBER: **645067 - 007**

CAPACITY(IN GALLONS): **1000**

DATE INSTALLED: **6/21/1995**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

Registered Storage Tanks (RST)

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Registered Storage Tanks (RST)

MAP ID# 27

Distance from Property: 0.129 mi. (681 ft.) NW
Elevation: 575 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-91687
FACILITY ID#: 25-91687
NAME: ERIE CONVENTION CTR HOTEL PARKING GARAGE
ADDRESS: 4 STATE ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 662966
SEQUENCE NUMBER: 927005 - 001
CAPACITY(IN GALLONS): 2000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 662966
SEQUENCE NUMBER: 927006 - 002
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

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Leaking Registered Storage Tanks (LRST)

MAP ID# 28

Distance from Property: 0.194 mi. (1,024 ft.) ENE
Elevation: 650 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592478
FACILITY ID#: 592478
NAME: ATLANTIC 0363 8756 CO OP 4047
ADDRESS: 954 E 6TH ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-24199 CLIENT ID: 77326
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: ATLANTIC REF & MKT CORP
INCIDENT ID: 22135
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: ATLANTIC #0363-8756
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 7/20/1998
STATUS DESCRIPTION: INACTIVE
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: GROUND WATER
SUBSTANCE: NOT REPORTED
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: CORRECTIVE ACTION/TANK CLOSURE REQUIREMENTS REMAIN OUTSTANDING FOR INCIDENTS IN INACTIVE STATUS.

PROGRAM OTHER ID: 25-24199 CLIENT ID: 77326
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: ATLANTIC REF & MKT CORP
INCIDENT ID: 22135
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: ATLANTIC #0363-8756
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 7/20/1998
STATUS DESCRIPTION: INACTIVE
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL

Leaking Registered Storage Tanks (LRST)

SUBSTANCE: **NOT REPORTED**

CASRN CODE: **NOT REPORTED**

CHEMICAL: **NOT REPORTED**

COMMENT: **CORRECTIVE ACTION/TANK CLOSURE REQUIREMENTS REMAIN OUTSTANDING FOR INCIDENTS IN INACTIVE STATUS.**

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Registered Storage Tanks (RST)

MAP ID# 28

Distance from Property: 0.194 mi. (1,024 ft.) ENE
Elevation: 650 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-24199
FACILITY ID#: 25-24199
NAME: ATLANTIC 0363 8756 CO OP 4047
ADDRESS: 954 E 6TH ST
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 515918
SEQUENCE NUMBER: 644687 - 001
CAPACITY(IN GALLONS): 8000
DATE INSTALLED: 6/1/1968
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 515918
SEQUENCE NUMBER: 644688 - 002
CAPACITY(IN GALLONS): 8000
DATE INSTALLED: 6/1/1968
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 515918
SEQUENCE NUMBER: 644689 - 003
CAPACITY(IN GALLONS): 6000
DATE INSTALLED: 6/1/1973
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **515918**

SEQUENCE NUMBER: **644690 - 004**

CAPACITY(IN GALLONS): **550**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Leaking Registered Storage Tanks (LRST)

MAP ID# 29

Distance from Property: 0.216 mi. (1,140 ft.) SE
Elevation: 652 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592742
FACILITY ID#: 592742
NAME: ERIE SCH DIST BUS GARAGE
ADDRESS: 857 E 9TH ST
ERIE, PA 16503
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-90712 CLIENT ID: 83981
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: ERIE CITY SCH DIST
INCIDENT ID: 22130
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: ERIE SCHOOL DISTRICT SERVICE CENTER
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 2/4/2000
STATUS DESCRIPTION: INACTIVE
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: CORRECTIVE ACTION/TANK CLOSURE REQUIREMENTS REMAIN OUTSTANDING FOR INCIDENTS IN INACTIVE STATUS.

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Registered Storage Tanks (RST)

MAP ID# 29

Distance from Property: 0.216 mi. (1,140 ft.) SE
Elevation: 652 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-90712
FACILITY ID#: 25-90712
NAME: ERIE SCH DIST BUS GARAGE
ADDRESS: 857 E 9TH ST
ERIE, PA 16503
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 574384
SEQUENCE NUMBER: 645684 - 001
CAPACITY(IN GALLONS): 10000
DATE INSTALLED: 6/1/1975
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574384
SEQUENCE NUMBER: 645685 - 002
CAPACITY(IN GALLONS): 10000
DATE INSTALLED: 6/1/1975
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574384
SEQUENCE NUMBER: 645686 - 003
CAPACITY(IN GALLONS): 6000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Registered Storage Tanks (RST)

MAP ID# 30

Distance from Property: 0.228 mi. (1,204 ft.) NE
Elevation: 638 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-90823
FACILITY ID#: 25-90823
NAME: GERTRUDE A BARBER DR CTR
ADDRESS: 100 BARBER PL
ERIE, PA 16507-1863
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

SITE ID: 574407	CLIENT: 168457
REGISTRATION EXPIRATION DATE: 12/4/2019	CLIENT NAME: GERTRUDE A BARBER CTR INC DR
SEQUENCE NUMBER: 645746 - 001	ADDRESS: 100 BARBER PL
TANK TYPE: UNDERGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: 11/1/1988	ERIE, PA 16507-1863
CAPACITY: 10000	
SUBSTANCE: GASOLINE	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: OPR	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: 1/17/2018	
NEXT INSPECTION DUE: FACILITY OPERATION INSPECTION (UST ONLY) - 1/17/2021	

SITE ID: 574407	CLIENT: 168457
REGISTRATION EXPIRATION DATE: 12/4/2019	CLIENT NAME: GERTRUDE A BARBER CTR INC DR
SEQUENCE NUMBER: 645747 - 002	ADDRESS: 100 BARBER PL
TANK TYPE: UNDERGROUND STORAGE TANK	ADDRESS2: NOT REPORTED
DATE INSTALLED: 11/1/1988	ERIE, PA 16507-1863
CAPACITY: 1000	
SUBSTANCE: USED OIL	
TANK STATUS: CURRENTLY IN USE	
PERMIT TYPE: OPR	
PERMIT STATUS: APPROVED	
DATE LAST INSPECTION: 1/17/2018	
NEXT INSPECTION DUE: FACILITY OPERATION INSPECTION (UST ONLY) - 1/17/2021	

CLOSED STORAGE TANK(S)

NO CLOSED STORAGE TANK DATA REPORTED FOR THIS FACILITY

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Registered Storage Tanks (RST)

MAP ID# 31

Distance from Property: 0.231 mi. (1,220 ft.) ENE
Elevation: 645 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 25-16820
FACILITY ID#: 25-16820
NAME: FLANAGANS SVC
ADDRESS: 430 EAST AVE
ERIE, PA 16507
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

REGISTERED STORAGE TANK(S)

NO STORAGE TANK DATA REPORTED FOR THIS FACILITY

CLOSED STORAGE TANK(S)

SITE ID: 574148
SEQUENCE NUMBER: 644233 - 001
CAPACITY(IN GALLONS): 4000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574148
SEQUENCE NUMBER: 644234 - 002
CAPACITY(IN GALLONS): 4000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED
CHEMICAL NUMBER: NOT REPORTED
CHEMICAL NAME: NOT REPORTED

SITE ID: 574148
SEQUENCE NUMBER: 644235 - 003
CAPACITY(IN GALLONS): 1000
DATE INSTALLED: NOT REPORTED
TANK TYPE: UNDERGROUND STORAGE TANK
SUBSTANCE TYPE: NOT REPORTED
SUBSTANCE DESCRIPTION: NOT REPORTED
OTHER SUBSTANCE: NOT REPORTED

Registered Storage Tanks (RST)

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574148**

SEQUENCE NUMBER: **644236 - 004**

CAPACITY(IN GALLONS): **1000**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

SITE ID: **574148**

SEQUENCE NUMBER: **644237 - 005**

CAPACITY(IN GALLONS): **1000**

DATE INSTALLED: **NOT REPORTED**

TANK TYPE: **UNDERGROUND STORAGE TANK**

SUBSTANCE TYPE: **NOT REPORTED**

SUBSTANCE DESCRIPTION: **NOT REPORTED**

OTHER SUBSTANCE: **NOT REPORTED**

CHEMICAL NUMBER: **NOT REPORTED**

CHEMICAL NAME: **NOT REPORTED**

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Historical Gas Stations (HISTPST)

[MAP ID# 32](#)

Distance from Property: 0.233 mi. (1,230 ft.) E
Elevation: 654 ft. (Higher than TP)

SITE INFORMATION

GSID: 2316013453

STATION TYPE: PENN OIL COMPANY

ADDRESS: 7TH & EAST STS
ERIE, PA

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Leaking Registered Storage Tanks (LRST)

MAP ID# 33

Distance from Property: 0.308 mi. (1,626 ft.) SSE
Elevation: 639 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592341
FACILITY ID#: 592341
NAME: ERIE SPEED CHECK
ADDRESS: 209 E 6TH ST
ERIE, PA 16507-1523
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-14130 CLIENT ID: 271284
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: SUNNY SIMRAN LLC
INCIDENT ID: 22066
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: BP #07070
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 5/31/2012
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: GROUND WATER
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

PROGRAM OTHER ID: 25-14130 CLIENT ID: 271284
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: SUNNY SIMRAN LLC
INCIDENT ID: 22066
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: BP #07070
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 5/31/2012
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE

Leaking Registered Storage Tanks (LRST)

CASRN CODE: NOT REPORTED

CHEMICAL: NOT REPORTED

COMMENT: NOT REPORTED

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Voluntary Cleanup Sites (VCP)

MAP ID# 33

Distance from Property: 0.308 mi. (1,626 ft.) SSE
Elevation: 639 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **821719**
FACILITY ID: **821719**
NAME: **ERIE SPEED CHECK**
ADDRESS: **209 E 6TH ST**
ERIE, PA 16507
REMEDIATION STANDARD: **STATEWIDE HEALTH STANDARD**
REGION: **NORTHWEST REGION**
LRP ACTIVITY: **50988**
STATUS: **COMPLETED**
NOTICE OF INTENT TO REMEDIATE: **NOT REPORTED**

FACILITY DETAILS

CONTAMINANT CATEGORY: **NOT REPORTED**
ACTIVITY AND USE LIMITATION: **NO**
APPROVED DATE: **11/29/2018**
MEDIA: **GROUNDWATER**

CONTAMINANT CATEGORY: **NOT REPORTED**
ACTIVITY AND USE LIMITATION: **NO**
APPROVED DATE: **11/29/2018**
MEDIA: **SOIL**

CONTAMINANT CATEGORY: **NOT REPORTED**
ACTIVITY AND USE LIMITATION: **NOT REPORTED**
APPROVED DATE: **NOT REPORTED**
MEDIA: **GROUNDWATER**

CONTAMINANT CATEGORY: **NOT REPORTED**
ACTIVITY AND USE LIMITATION: **NOT REPORTED**
APPROVED DATE: **NOT REPORTED**
MEDIA: **SOIL**

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**Resource Conservation & Recovery Act - Subject to Corrective Action
Facilities (RCRASUBC)**

MAP ID# 34

Distance from Property: 0.326 mi. (1,721 ft.) NE
Elevation: 588 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD077478964

NAME: ERIE COKE

ADDRESS: EAST AVE

ERIE, PA 16512

OWNER TYPE: NOT REPORTED

OWNER NAME: NOT REPORTED

OPERATOR TYPE: NOT REPORTED

OPERATOR NAME: NOT REPORTED

CONTACT NAME: NOT REPORTED

CONTACT ADDRESS: NOT REPORTED

CONTACT PHONE: NOT REPORTED

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 07/26/2012

CERTIFICATION - NO CERTIFICATION REPORTED -

INDUSTRY CLASSIFICATION (NAICS)

331111 - IRON AND STEEL MILLS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **08/06/2012**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **YES**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **YES**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/29/2015 SNN NOT A SIGNIFICANT NON-COMPLIER

02/07/2013 SNY SIGNIFICANT NON-COMPLIER

04/23/2019 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

05/10/2000 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

05/13/1987 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

05/18/1994 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

06/04/1990 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

07/17/2012 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

10/20/1987 NRR NON-FINANCIAL RECORD REVIEW

VIOLATIONS

06/04/1990 262.A GENERATORS - GENERAL

**Resource Conservation & Recovery Act - Subject to Corrective Action
Facilities (RCRASUBC)**

10/20/1987 262.A GENERATORS - GENERAL

05/13/1987 262.A GENERATORS - GENERAL

ENFORCEMENTS

03/03/1988 120 WRITTEN INFORMAL

05/27/1987 120 WRITTEN INFORMAL

HAZARDOUS WASTE

D001 IGNITABLE WASTE

D018 BENZENE

D039 TETRACHLOROETHYLENE

D040 TRICHLORETHYLENE

F016

K087 DECANTER TANK TAR SLUDGE FROM COKING OPERATIONS.

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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**Resource Conservation & Recovery Act - Non-CORRACTS Treatment,
Storage & Disposal Facilities (RCRAT)**

MAP ID# 34

Distance from Property: 0.326 mi. (1,721 ft.) NE
Elevation: 588 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD077478964

NAME: ERIE COKE

ADDRESS: EAST AVE

ERIE, PA 16512

OWNER TYPE: NOT REPORTED

OWNER NAME: NOT REPORTED

OPERATOR TYPE: NOT REPORTED

OPERATOR NAME: NOT REPORTED

CONTACT NAME: NOT REPORTED

CONTACT ADDRESS: NOT REPORTED

CONTACT PHONE: NOT REPORTED

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 07/26/2012

CERTIFICATION - NO CERTIFICATION REPORTED -

INDUSTRY CLASSIFICATION (NAICS)

331111 - IRON AND STEEL MILLS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: SMALL QUANTITY GENERATOR LAST UPDATED DATE: 08/06/2012

SUBJECT TO CORRECTIVE ACTION UNIVERSE: YES

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: NO

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: YES

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: NO

CORRECTIVE ACTION WORKLOAD UNIVERSE: NO

IMPORTER: NO

UNDERGROUND INJECTION: NO

MIXED WASTE GENERATOR: NO

UNIVERSAL WASTE DESTINATION FACILITY: NO

RECYCLER: NO

TRANSFER FACILITY: NO

TRANSPORTER: NO

USED OIL FUEL BURNER: NO

ONSITE BURNER EXEMPTION: NO

USED OIL PROCESSOR: NO

FURNACE EXEMPTION: NO

USED OIL FUEL MARKETER TO BURNER: NO

USED OIL REFINER: NO

SPECIFICATION USED OIL MARKETER: NO

USED OIL TRANSFER FACILITY: NO

USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/29/2015 SNN NOT A SIGNIFICANT NON-COMPLIER

02/07/2013 SNY SIGNIFICANT NON-COMPLIER

04/23/2019 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

05/10/2000 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

05/13/1987 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

05/18/1994 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

06/04/1990 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

07/17/2012 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

10/20/1987 NRR NON-FINANCIAL RECORD REVIEW

VIOLATIONS

06/04/1990 262.A GENERATORS - GENERAL

**Resource Conservation & Recovery Act - Non-CORRACTS Treatment,
Storage & Disposal Facilities (RCRAT)**

10/20/1987 262.A GENERATORS - GENERAL
05/13/1987 262.A GENERATORS - GENERAL

ENFORCEMENTS

03/03/1988 120 WRITTEN INFORMAL
05/27/1987 120 WRITTEN INFORMAL

— HAZARDOUS WASTE —

D001 **IGNITABLE WASTE**
D018 **BENZENE**
D039 **TETRACHLOROETHYLENE**
D040 **TRICHLORETHYLENE**
F016
K087 **DECANTER TANK TAR SLUDGE FROM COKING OPERATIONS.**

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

[MAP ID# 34](#)

Distance from Property: 0.326 mi. (1,721 ft.) NE
Elevation: 588 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: PAD077478964

SITE ID#: 0301104

NAME: ERIE COKE CORP

ADDRESS: FOOT OF EAST ST
ERIE, PA 16501

COUNTY: ERIE

FEDERAL FACILITY: NOT A FEDERAL FACILITY

NPL: NOT ON THE NPL

NON NPL STATUS: NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION

SEMS SEARCH: [CLICK HERE](#)

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

<u>ACTION</u>	<u>START DATE</u>	<u>COMPLETION DATE</u>	<u>RESPONSIBILITY</u>
DS - DISCOVERY	NOT REPORTED	11/1/1979	EPA FUND
PA - PRELIMINARY ASSESSMENT	NOT REPORTED	2/1/1980	EPA FUND
VS - ARCHIVE SITE	NOT REPORTED	2/1/1980	EPA IN-HOUSE

ACTION DESCRIPTIONS

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

MAP ID# 35

Distance from Property: 0.345 mi. (1,822 ft.) WSW
Elevation: 641 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAD981104649

SITE ID#: 0302160

NAME: NORTH CREEK ROAD LANDFILL #70

ADDRESS: 606 W 2ND ST
ERIE, PA 16507

COUNTY: ERIE

FEDERAL FACILITY: NOT A FEDERAL FACILITY

NPL: NOT ON THE NPL

NON NPL STATUS: NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION

SEMS SEARCH: [CLICK HERE](#)

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

<u>ACTION</u>	<u>START DATE</u>	<u>COMPLETION DATE</u>	<u>RESPONSIBILITY</u>
PA - PRELIMINARY ASSESSMENT	7/1/1987	9/14/1987	EPA FUND
DS - DISCOVERY	NOT REPORTED	12/2/1985	STATE (FUND)
VS - ARCHIVE SITE	NOT REPORTED	9/14/1987	EPA IN-HOUSE

ACTION DESCRIPTIONS

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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Leaking Registered Storage Tanks (LRST)

MAP ID# 36

Distance from Property: 0.361 mi. (1,906 ft.) ENE
Elevation: 641 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592152
FACILITY ID#: 592152
NAME: KWIK FILL M 8
ADDRESS: 1101 E LAKE RD
ERIE, PA 16500
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-00737 CLIENT ID: 189857
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: UNITED REF CO OF PA
INCIDENT ID: 21999
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: KWIK FILL M 008
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 12/23/2002
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: GROUND WATER
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: FILE AS: KWIK FILL M8

AMERICAN ENVIRONMENTAL SUBMITTED A REMEDIAL ACTION COMPLETION REPORT TO THE DEPARTMENT ON 25 OCT 02 AND RESUBMITTED A CORRECTED REPORT ON 13 DEC 02 ON BEHALF OF UNITED REFINING COMPANY OF PENNSYLVANIA. THIS REPORT DOCUMENTS ATTAINMENT OF STATEWIDE STANDARDS IN A RESIDENTIAL USED AQUIFER SETTING FOR SOILS AND GROUNDWATER AT THE SITE.

IN JULY 95 A TANK TEST WAS PERFORMED WHICH INDICATED A 4,000-GALLON UNLEADED GASOLINE TANK WAS LEAKING. THE TANK WAS TAKEN OUT OF SERVICE AND A SITE CHARACTERIZATION WAS PERFORMED. 3 MONITORING WELLS WERE INSTALLED. ONE MONITORING WELL, MW3, EXCEEDED ACTION LEVELS FOR SOIL AND GROUNDWATER. IN NOV 98 THREE UST SYSTEMS, TO INCLUDE THE FAILED TANK, WERE CLOSED BY REMOVAL AND REPLACED AS PART OF A FACILITY UPGRADE. OBVIOUS LOCALIZED SOIL CONTAMINATION WAS ENCOUNTERED, MOSTLY IN AREA OF FAILED TANK. APPROXIMATELY 177 TONS OF CONTAMINATED SOIL WAS EXCAVATED AND SENT TO LAKE VIEW LANDFILL. ALL CONFIRMATORY SOIL SAMPLE RESULTS WERE WITHIN STATEWIDE STANDARDS. MW3 WAS DESTROYED DURING THE REMOVAL. TWO NEW MONITORING WELLS WERE INSTALLED. THE SOIL AND GROUNDWATER SAMPLES WERE WITHIN STATEWIDE STANDARDS. QUARTERLY MONITORING ENSUED. THE LAST SAMPLES WERE DRAWN MAR 02.

SOIL ON SITE CONSISTS OF SANDS TO APPROXIMATELY 18 FEET BGS. UNDERLYING THE SANDS IS DENSE GRAY CLAY.

Leaking Registered Storage Tanks (LRST)

BEDROCK WAS NOT ENCOUNTERED. GROUNDWATER IS APPROXIMATELY 8 FEET BGS FLOWING IN A NORTH/NORTHEAST DIRECTION. THE SITE IS IN A MIXED COMMERCIAL RESIDENTIAL AREA WITHIN THE CITY OF ERIE. SEWER AND WATER UTILITIES ARE AVAILABLE. IT IS LOCATED WITHIN THE LAKE ERIE WATERSHED.

IT APPEARS THAT ATTAINMENT OF THE STATEWIDE STANDARDS FOR SOIL AND GROUNDWATER IN RESIDENTIAL USED AQUIFER SETTINGS HAVE BEEN DEMONSTRATED. THE SITE IS EXEMPTED FROM AN ECOLOGICAL STUDY. THE REMEDIAL ACTION REPORT WAS APPROVED BY THE DEPARTMENT ON 23 DEC 02.

PROGRAM OTHER ID: 25-00737 CLIENT ID: 189857
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: UNITED REF CO OF PA
INCIDENT ID: 21999
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: KWIK FILL M 008
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 12/23/2002
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: FILE AS: KWIK FILL M8

AMERICAN ENVIRONMENTAL SUBMITTED A REMEDIAL ACTION COMPLETION REPORT TO THE DEPARTMENT ON 25 OCT 02 AND RESUBMITTED A CORRECTED REPORT ON 13 DEC 02 ON BEHALF OF UNITED REFINING COMPANY OF PENNSYLVANIA. THIS REPORT DOCUMENTS ATTAINMENT OF STATEWIDE STANDARDS IN A RESIDENTIAL USED AQUIFER SETTING FOR SOILS AND GROUNDWATER AT THE SITE.

IN JULY 95 A TANK TEST WAS PERFORMED WHICH INDICATED A 4,000-GALLON UNLEADED GASOLINE TANK WAS LEAKING. THE TANK WAS TAKEN OUT OF SERVICE AND A SITE CHARACTERIZATION WAS PERFORMED. 3 MONITORING WELLS WERE INSTALLED. ONE MONITORING WELL, MW3, EXCEEDED ACTION LEVELS FOR SOIL AND GROUNDWATER. IN NOV 98 THREE UST SYSTEMS, TO INCLUDE THE FAILED TANK, WERE CLOSED BY REMOVAL AND REPLACED AS PART OF A FACILITY UPGRADE. OBVIOUS LOCALIZED SOIL CONTAMINATION WAS ENCOUNTERED, MOSTLY IN AREA OF FAILED TANK. APPROXIMATELY 177 TONS OF CONTAMINATED SOIL WAS EXCAVATED AND SENT TO LAKE VIEW LANDFILL. ALL CONFIRMATORY SOIL SAMPLE RESULTS WERE WITHIN STATEWIDE STANDARDS. MW3 WAS DESTROYED DURING THE REMOVAL. TWO NEW MONITORING WELLS WERE INSTALLED. THE SOIL AND GROUNDWATER SAMPLES WERE WITHIN STATEWIDE STANDARDS. QUARTERLY MONITORING ENSUED. THE LAST SAMPLES WERE DRAWN MAR 02.

SOIL ON SITE CONSISTS OF SANDS TO APPROXIMATELY 18 FEET BGS. UNDERLYING THE SANDS IS DENSE GRAY CLAY. BEDROCK WAS NOT ENCOUNTERED. GROUNDWATER IS APPROXIMATELY 8 FEET BGS FLOWING IN A NORTH/NORTHEAST DIRECTION. THE SITE IS IN A MIXED COMMERCIAL RESIDENTIAL AREA WITHIN THE CITY OF ERIE. SEWER AND WATER UTILITIES ARE AVAILABLE. IT IS LOCATED WITHIN THE LAKE ERIE WATERSHED.

Leaking Registered Storage Tanks (LRST)

IT APPEARS THAT ATTAINMENT OF THE STATEWIDE STANDARDS FOR SOIL AND GROUNDWATER IN RESIDENTIAL USED AQUIFER SETTINGS HAVE BEEN DEMONSTRATED. THE SITE IS EXEMPTED FROM AN ECOLOGICAL STUDY. THE REMEDIAL ACTION REPORT WAS APPROVED BY THE DEPARTMENT ON 23 DEC 02.

PROGRAM OTHER ID: **25-00737** CLIENT ID: **189857**
REGION: **EP NW RGNL OFF MEADVILLE** CLIENT / OWNER: **UNITED REFINING CO OF PA**
INCIDENT ID: **21999**
INCIDENT TYPE: **UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM**
INCIDENT DESCRIPTION: **KWIK FILL M 008**
SUSPECT DATE: **NOT REPORTED**
CONFIRMED DATE: **8/5/1989**
STATUS DATE: **12/23/2002**
STATUS DESCRIPTION: **CLEANUP COMPLETED**
SOURCE OF NOTIFICATION: **NOT REPORTED**
RELEASE DISCOVERED/FOUND: **NOT REPORTED**
SOURCE/CAUSE OF RELEASE: **NOT REPORTED**
TANK: **NOT REPORTED**
ENVIRONMENTAL IMPACT DESCRIPTION: **NOT REPORTED**
SUBSTANCE: **NOT REPORTED**
CASRN CODE: **NOT REPORTED**
CHEMICAL: **NOT REPORTED**
COMMENT: **FILE AS: KWIK FILL M8**

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Leaking Registered Storage Tanks (LRST)

MAP ID# 37

Distance from Property: 0.384 mi. (2,028 ft.) ESE
Elevation: 661 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592488
FACILITY ID#: 592488
NAME: EAST AVENUE SPEED CHECK
ADDRESS: 1001 EAST AVE
ERIE, PA 16503-1531
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-24943 CLIENT ID: 314023
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: MATA BHAGO LLC
INCIDENT ID: 22087
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: BOB'S SERVICE & SALES
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 10/18/2002
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: GROUND WATER
SUBSTANCE: NOT REPORTED
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

PROGRAM OTHER ID: 25-24943 CLIENT ID: 314023
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: MATA BHAGO LLC
INCIDENT ID: 22087
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: BOB'S SERVICE & SALES
SUSPECT DATE: NOT REPORTED
CONFIRMED DATE: 8/5/1989
STATUS DATE: 10/18/2002
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: NOT REPORTED
RELEASE DISCOVERED/FOUND: NOT REPORTED
SOURCE/CAUSE OF RELEASE: NOT REPORTED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: UNLEADED GASOLINE

Leaking Registered Storage Tanks (LRST)

CASRN CODE: **NOT REPORTED**

CHEMICAL: **NOT REPORTED**

COMMENT: **NOT REPORTED**

PROGRAM OTHER ID: **25-24943**

CLIENT ID: **314023**

REGION: **EP NW RGNL OFF MEADVILLE**

CLIENT / OWNER: **MATA BHAGO LLC**

INCIDENT ID: **22087**

INCIDENT TYPE: **UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM**

INCIDENT DESCRIPTION: **BOB'S SERVICE & SALES**

SUSPECT DATE: **NOT REPORTED**

CONFIRMED DATE: **8/5/1989**

STATUS DATE: **10/18/2002**

STATUS DESCRIPTION: **CLEANUP COMPLETED**

SOURCE OF NOTIFICATION: **NOT REPORTED**

RELEASE DISCOVERED/FOUND: **NOT REPORTED**

SOURCE/CAUSE OF RELEASE: **NOT REPORTED**

TANK: **NOT REPORTED**

ENVIRONMENTAL IMPACT DESCRIPTION: **SOIL**

SUBSTANCE: **USED MOTOR OIL**

CASRN CODE: **NOT REPORTED**

CHEMICAL: **NOT REPORTED**

COMMENT: **NOT REPORTED**

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Leaking Registered Storage Tanks (LRST)

MAP ID# 38

Distance from Property: 0.4 mi. (2,112 ft.) SE
Elevation: 645 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID#: 592629
FACILITY ID#: 592629
NAME: HOLIDAY MART II
ADDRESS: 605 PARADE ST
ERIE, PA 16503-1111
COUNTY: ERIE
MUNICIPALITY NAME: ERIE CITY

FACILITY DETAIL(S)

PROGRAM OTHER ID: 25-90035 CLIENT ID: 242832
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: KANG FUEL & FOOD MART INC
INCIDENT ID: 43899
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: PHASE II
SUSPECT DATE: 5/9/2012
CONFIRMED DATE: 5/29/2012
STATUS DATE: 10/5/2015
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: FACILITY FACILITY FACILITY OWNER
RELEASE DISCOVERED/FOUND: MONITORING WELL SAMPLE RESULTS
SOURCE/CAUSE OF RELEASE: UNDETERMINED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: GROUND WATER
SUBSTANCE: UNLEADED GASOLINE
CASRN CODE: NOT REPORTED
CHEMICAL: NOT REPORTED
COMMENT: NOT REPORTED

PROGRAM OTHER ID: 25-90035 CLIENT ID: 242832
REGION: EP NW RGNL OFF MEADVILLE CLIENT / OWNER: KANG FUEL & FOOD MART INC
INCIDENT ID: 43899
INCIDENT TYPE: UNDERGROUND STORAGE TANK SYSTEM CONTAINING PETROLEUM
INCIDENT DESCRIPTION: PHASE II
SUSPECT DATE: 5/9/2012
CONFIRMED DATE: 5/29/2012
STATUS DATE: 10/5/2015
STATUS DESCRIPTION: CLEANUP COMPLETED
SOURCE OF NOTIFICATION: FACILITY FACILITY FACILITY OWNER
RELEASE DISCOVERED/FOUND: MONITORING WELL SAMPLE RESULTS
SOURCE/CAUSE OF RELEASE: UNDETERMINED
TANK: NOT REPORTED
ENVIRONMENTAL IMPACT DESCRIPTION: SOIL
SUBSTANCE: NOT REPORTED

Leaking Registered Storage Tanks (LRST)

CASRN CODE: NOT REPORTED

CHEMICAL: NOT REPORTED

COMMENT: NOT REPORTED

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Voluntary Cleanup Sites (VCP)

MAP ID# 39

Distance from Property: 0.493 mi. (2,603 ft.) ESE
Elevation: 669 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: 625534

FACILITY ID: 625534

NAME: ERIE CITY IRON WORKS

ADDRESS: 12TH & EAST AVE

ERIE, PA 16510

REMEDATION STANDARD: SITE-SPECIFIC STANDARD

REGION: NORTHWEST REGION

LRP ACTIVITY: 32767

STATUS: COMPLETED

NOTICE OF INTENT TO REMEDIATE: NOT REPORTED

FACILITY DETAILS

CONTAMINANT CATEGORY: NOT REPORTED

ACTIVITY AND USE LIMITATION: YES

APPROVED DATE: 03/11/1997

MEDIA: SOIL

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Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

MAP ID# 40

Distance from Property: 0.659 mi. (3,480 ft.) E
Elevation: 663 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAD050942291
NAME: AMER METER
ADDRESS: 920 PAYNE AVE
ERIE, PA 16512-1251

OWNER TYPE: NOT REPORTED
OWNER NAME: NOT REPORTED
OPERATOR TYPE: NOT REPORTED
OPERATOR NAME: NOT REPORTED

CONTACT NAME: NOT REPORTED
CONTACT ADDRESS: NOT REPORTED

CONTACT PHONE: NOT REPORTED
NON-NOTIFIER: NOT A NON-NOTIFIER
DATE RECEIVED BY AGENCY: 06/20/2018

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
JOHN CRAY	DIR OF OPERATIONS	02/07/2003
GAYLORD H MAGOON	E&S SPECIALIST	02/08/2002
GAYLORD H MAGOON	E&S SPEC	02/17/1998
GAYLORD H MAGOON	ENVR SPECIALIST	01/25/1996
GAYLORD H MAGOON	SR IND ENG	02/28/1994
ROBERT E AXE	MGR,HUMAN RESOU	02/19/1992
ROBERT E AXE	PERSONNEL MGR.	02/26/1990

INDUSTRY CLASSIFICATION (NAICS)

33451 - NAVIGATIONAL, MEASURING, ELECTROMEDICAL, AND CONTROL INSTRUMENTS MANUFACTURING
334514 - TOTALIZING FLUID METER AND COUNTING DEVICE MANUFACTURING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **07/02/2018**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **YES**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **YES**
NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**
IMPORTER: **NO** UNDERGROUND INJECTION: **NO**
MIXED WASTE GENERATOR: **NO** UNIVERSAL WASTE DESTINATION FACILITY: **NO**
RECYCLER: **NO** TRANSFER FACILITY: **NO**
TRANSPORTER: **NO** USED OIL FUEL BURNER: **NO**
ONSITE BURNER EXEMPTION: **NO** USED OIL PROCESSOR: **NO**
FURNACE EXEMPTION: **NO** USED OIL FUEL MARKETER TO BURNER: **NO**
USED OIL REFINER: **NO** SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSFER FACILITY: **NO** USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/04/2001 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
01/08/1997 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

01/23/1997	CSE COMPLIANCE SCHEDULE EVALUATION
02/21/1990	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
03/25/2003	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/13/2012	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
05/09/1997	FCI FOCUSED COMPLIANCE INSPECTION
06/03/1988	CSE COMPLIANCE SCHEDULE EVALUATION
06/27/1997	CSE COMPLIANCE SCHEDULE EVALUATION
11/16/1999	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
12/04/1987	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
12/14/1989	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS

05/09/1997	262.C GENERATORS - PRE-TRANSPORT
01/08/1997	262.C GENERATORS - PRE-TRANSPORT
02/21/1990	FEA FORMAL ENFORCEMENT AGREEMENT OR ORDER
12/14/1989	264.A TSD - GENERAL
12/14/1989	268.A LDR - GENERAL
12/04/1987	264.A TSD - GENERAL

ENFORCEMENTS

02/28/1990	120 WRITTEN INFORMAL
12/17/1987	120 WRITTEN INFORMAL
12/21/1989	120 WRITTEN INFORMAL

HAZARDOUS WASTE

D000

D001 IGNITABLE WASTE

D008 LEAD

D009 MERCURY

D039 TETRACHLOROETHYLENE

F001 THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING 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 F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

F003 THE FOLLOWING SPENT NON-HALOGENATED 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 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.

F005 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.

F017

F018

**Resource Conservation & Recovery Act - Subject to Corrective Action
Facilities (RCRASUBC)**

UNIVERSAL WASTE

WASTE TYPE:	ACCUMULATED WASTE ON-SITE:	GENERATED WASTE ON-SITE:	SOURCE TYPE:
BATTERIES	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
LAMPS	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
PESTICIDES	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

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Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

MAP ID# 41

Distance from Property: 0.684 mi. (3,612 ft.) ESE
Elevation: 677 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: PAD005031737
NAME: ACCU RIDE ERIE LP
ADDRESS: 1015 E 12TH ST
ERIE, PA 16503

OWNER TYPE: NOT REPORTED
OWNER NAME: NOT REPORTED
OPERATOR TYPE: NOT REPORTED
OPERATOR NAME: NOT REPORTED

CONTACT NAME: NOT REPORTED
CONTACT ADDRESS: NOT REPORTED

CONTACT PHONE: NOT REPORTED
NON-NOTIFIER: NOT A NON-NOTIFIER
DATE RECEIVED BY AGENCY: 12/20/2016

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
ROBERT C SCHMEISSER	PLT ENV COORD	01/19/1998
ROBERT C SCHMEISSER	PLT ENVR REP	01/31/1996
RAYMOND W O'DONNELL	PLANT ENV. REP.	02/16/1994
RAYMOND W O'DONNELL	PLANT ENGINEER	02/25/1992
RAYMOND W O'DONNELL	PLANT ENGINEER	03/21/1990

INDUSTRY CLASSIFICATION (NAICS)

332112 - NONFERROUS FORGING
335931 - CURRENT-CARRYING WIRING DEVICE MANUFACTURING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **01/18/2017**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **YES**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **YES**

IMPORTER: NO	UNDERGROUND INJECTION: NO
MIXED WASTE GENERATOR: NO	UNIVERSAL WASTE DESTINATION FACILITY: NO
RECYCLER: NO	TRANSFER FACILITY: NO
TRANSPORTER: NO	USED OIL FUEL BURNER: NO
ONSITE BURNER EXEMPTION: NO	USED OIL PROCESSOR: NO
FURNACE EXEMPTION: NO	USED OIL FUEL MARKETER TO BURNER: NO
USED OIL REFINER: NO	SPECIFICATION USED OIL MARKETER: NO
USED OIL TRANSFER FACILITY: NO	USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/16/1992	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
06/27/1990	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
07/20/1994	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
07/25/1990	CSE COMPLIANCE SCHEDULE EVALUATION

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

08/06/1997 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
 09/03/1997 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
 09/24/1991 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
 09/28/1989 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS

08/06/1997 262.C GENERATORS - PRE-TRANSPORT
 06/27/1990 264.A TSD - GENERAL

ENFORCEMENTS

07/05/1990 120 WRITTEN INFORMAL
 08/30/1990 510 INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY

HAZARDOUS WASTE

D002 CORROSIVE WASTE
 D008 LEAD
 F006 WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

NONE

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA (RELEASE)

AREA NAME:	AIR:	GROUNDWATER:	SOIL:	SURFACE WASTE:
ENTIRE FACILITY	----	----	----	----
FORMER POND	----	----	Y	----

CORRECTIVE ACTION EVENT

CA EVENT CODE: **CAM790**
 EVENT DESCRIPTION: **NOT REPORTED**
 EVENT SEQUENCE NUMBER: **1**
 EVENT RESPONSIBLE AGENCY: **EPA**
 ACTUAL DATE OF EVENT: **09/30/2017**
 ORIGINAL SCHEDULE DATE OF EVENT: **09/30/2017**
 NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

 CA EVENT CODE: **CA400**
 EVENT DESCRIPTION: **REMEDY DECISION**
 EVENT SEQUENCE NUMBER: **1**
 EVENT RESPONSIBLE AGENCY: **EPA**
 ACTUAL DATE OF EVENT: **12/08/2011**
 ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
 NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

 CA EVENT CODE: **CA550RC**

**Resource Conservation & Recovery Act - Corrective Action Facilities
(RCRAC)**

EVENT DESCRIPTION: **REMEDY CONSTRUCTION-REMEDY CONSTRUCTED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **12/08/2011**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA800YE**
EVENT DESCRIPTION: **READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **12/08/2011**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA900CR**
EVENT DESCRIPTION: **CA PERFORMANCE STANDARDS ATTAINED - CONTROLS REQUIRED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **12/08/2011**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA770NG**
EVENT DESCRIPTION: **ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/14/2011**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA772GC**
EVENT DESCRIPTION: **INSTITUTIONAL CONTROLS ESTABLISHED-GOVERNMENTAL CONTROL**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/14/2011**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA725YE**
EVENT DESCRIPTION: **HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE**
EVENT SEQUENCE NUMBER: **1**

**Resource Conservation & Recovery Act - Corrective Action Facilities
(RCRAC)**

EVENT RESPONSIBLE AGENCY: EPA
ACTUAL DATE OF EVENT: 08/04/2009
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

CA EVENT CODE: CA750YE
EVENT DESCRIPTION: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: EPA
ACTUAL DATE OF EVENT: 08/04/2009
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

CA EVENT CODE: CA100
EVENT DESCRIPTION: INVESTIGATION IMPOSITION
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: EPA
ACTUAL DATE OF EVENT: 08/16/2005
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

CA EVENT CODE: CA772PR
EVENT DESCRIPTION: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: EPA
ACTUAL DATE OF EVENT: 06/23/2005
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

CA EVENT CODE: CA075ME
EVENT DESCRIPTION: CA PRIORITIZATION-MEDIUM CA PRIORITY
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: EPA
ACTUAL DATE OF EVENT: 05/28/1993
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

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State Hazardous Waste Sites (SHWS)

MAP ID# 42

Distance from Property: 0.986 mi. (5,206 ft.) S
Elevation: 686 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: 644814
FACILITY ID: 644814
OTHER PROGRAM ID: 644814
NAME: ERIE RESISTOR SITE
ADDRESS: STREET NOT REPORTED
NOT REPORTED, PA
REGION: EP NW RGNL OFF MEADVILLE
CLIENT ID: NOT REPORTED
CLIENT OWNER: NOT REPORTED
SITE ID: 626587
SITE NAME: ERIE RESISTOR
INITIATION TYPE: HSCA

FACILITY DETAILS

ACTIVITY ID: 32606
RESPONSE ACTION CODE: HSM - HSCA FURTHER INVESTIGATION - SITE STUDY
RESPONSE ACTION: KEY SITE FURTHER INVESTIGATION
RESPONSE ACTION INITIATED DATE: 5/1/1998
RESPONSE ACTION COMPLETED DATE: 6/1/1999
MEDIA NAME: NOT REPORTED
MEDIA TYPE: NOT REPORTED
SUBSTANCE: NOT REPORTED
CASRN: NOT REPORTED
CHEMICAL: NOT REPORTED
NOTICE DATE: NOT REPORTED
LISTED DATE: NOT REPORTED
DELISTED DATE: NOT REPORTED
RESPONSE JUSTIFICATION DATE: 5/1/1998

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Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

Database Name	Site ID#	Site Name	Address	City/State/Zip/County
CLEANERS	560554	PARIS CLEANERS/STATE STREET PLT	STATE ST	ERIE, PA 16505 ERIE
SEMSARCH	PAD980693105*ARCH	CATHY COURT	E 3RD ST	ERIE, PA 16501 ERIE

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AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/15

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 05/06/19

The U.S. Department of Justice ("the Department") provides this information 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. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 06/11/19

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

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of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. The data displays remedy component information for Superfund decision documents issued in fiscal years 1982-2017, and it includes final and deleted NPL sites as well as sites with a Superfund Alternative Approach (SAA) agreement in place. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR03 Enforcement and Compliance History Information

VERSION DATE: 03/09/19

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSPA Emergency Response Notification System

VERSION DATE: 10/06/19

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSPA Facility Registry System

VERSION DATE: 04/05/19

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRS03 Hazardous Materials Incident Reporting System

VERSION DATE: 04/14/19

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 3. This region includes the following states: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

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ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/21/19

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database is provided by the U.S. Environmental Protection Agency.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

NPDES03 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from the U.S. Environmental Protection Agency (EPA) from December 2002 through April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 3. This region includes the following states: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

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PADS PCB Activity Database System

VERSION DATE: 09/14/18

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of Polychlorinated Biphenyls (PCB) who are required to notify the U.S. Environmental Protection Agency of such activities.

PCSR03 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 3. This region includes the following states: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 09/12/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

SEMSLIENS SEMS Lien on Property

VERSION DATE: 08/13/18

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

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A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency 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. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/17

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

RCRAGR03 Resource Conservation & Recovery Act - Generator

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers

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to facilities currently generating hazardous waste. EPA Region 3 includes the following states: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

RCRANGR03

Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 3 includes the following states: Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

ALTFUELS

Alternative Fueling Stations

VERSION DATE: 03/01/19

Nationwide list of alternative fueling stations made available by the U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Bio-diesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST

FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST

Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

ICISCLEANERS

Integrated Compliance Information System Drycleaners

VERSION DATE: 09/21/19

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S. Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. The following Primary SIC Codes are included in this data: 7211, 7212, 7213, 7215, 7216, 7217, 7218, and/or 7219; the following Primary NAICS Codes are included in this data:

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812320, 812331, and/or 812332.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 03/15/19

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 07/10/19

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. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 08/13/19

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 08/19/19

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United

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States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 08/15/19

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 08/15/19

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 03/19/19

Environmental Records Definitions - FEDERAL

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (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.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites
VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites
VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites
VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. **DISCLAIMER:** This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program
VERSION DATE: 03/04/17

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE

Environmental Records Definitions - FEDERAL

evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 08/19/19

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 08/13/19

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 08/13/19

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA)

Environmental Records Definitions - FEDERAL

the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

RCRASUBC

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS

Record of Decision System

VERSION DATE: 08/13/19

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (PA)

AIRS Air Permitted Facilities

VERSION DATE: 06/19/19

This list of facilities with air permits is provided by the Pennsylvania Department of Environmental Protection.

AUL Activity and Use Limitations

VERSION DATE: 08/07/19

The Pennsylvania Activity and Use Limitations Registry identifies properties within the commonwealth where any type of Activity and Use Limitation (AUL) has been imposed and of which Pennsylvania Department of Environmental Protection (DEP) has been informed. AULs are restrictions or obligations with respect to real property. The term includes engineering controls and institutional controls. The DEP is obligated under Uniform Environmental Covenants Act to maintain a registry for the public display of covenants received.

EC Sites with Engineering Controls

VERSION DATE: 05/20/08

These sites with engineering control were approved by the Land Recycling Program prior to the effective date of Uniform Environmental Covenants Act. 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. According to the Pennsylvania Department of Environmental Protection, these sites will eventually be incorporated into the Pennsylvania Activity and Use Limitations Registry.

IC Sites with Institutional Controls

VERSION DATE: 05/20/08

These sites with institutional control were approved by the Land Recycling Program prior to the effective date of Uniform Environmental Covenants Act. 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. According to the Pennsylvania Department of Environmental Protection, these sites will eventually be incorporated into the Pennsylvania Activity and Use Limitations Registry.

NPDES National Pollutant Discharge Elimination System Permits

VERSION DATE: 06/19/19

The Pennsylvania Department of Environmental Protection (DEP) maintains this list of NPDES permit coverage in Pennsylvania. Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

Environmental Records Definitions - STATE (PA)

SPILLS Spills Listing

VERSION DATE: 07/15/19

This list of hazardous material spills is provided by the Pennsylvania Department of Environmental Protection.

UIC Underground Injection Control Wells

VERSION DATE: 07/29/19

A partial list of underground injection control wells is maintained by the Pennsylvania Department of Environmental Protection. The DEP maintains a list of Class II enhanced recovery and brine disposal wells.

CLEANERS Dry Cleaners

VERSION DATE: 08/29/19

The database includes dry cleaning facilities registered with the Pennsylvania Department of Environmental Protection.

RST Registered Storage Tanks

VERSION DATE: 08/25/19

According to the Pennsylvania Department of Environmental Protection (DEP), storage tanks are aboveground or underground, and are regulated under Chapter 245 pursuant to the Storage Tank and Spill Prevention Act. Storage tanks currently contain, have contained in the past, or will contain in the future, petroleum or a regulated hazardous substance. Above ground storage tanks that either contain hazardous materials or have a capacity greater than 21000 are removed.

BF Brownfield Sites

VERSION DATE: 10/03/19

The Pennsylvania Brownfields Inventory is a partial listing of brownfield sites that are available for redevelopment.

BF2 Brownfields

VERSION DATE: 04/11/17

This list of brownfields success stories include a list of sites that have successfully undergone remediation. This list is managed by the Pennsylvania Department of Environmental Protection.

LRST Leaking Registered Storage Tanks

VERSION DATE: 09/03/19

Environmental Records Definitions - STATE (PA)

This list represents confirmed release incidents that have been reported to Pennsylvania Department of Environmental Protection (DEP) since enactment of the Storage Tank and Spill Prevention Act (Tank Act). These release incidents represent leaks, spills and overfills which have occurred from both aboveground and belowground storage tank systems regulated by the Tank Act only. Releases from home heating oil tanks, which are not regulated by the Tank Act, are not part of this list. The purpose of this list is to provide information on the cleanup status of all known release incidents which have occurred from regulated storage tank systems in Pennsylvania.

MWO Municipal Waste Operations

VERSION DATE: 07/04/19

A Municipal Waste Operation is a Pennsylvania Department of Environmental Protection (DEP) primary facility type related to the Waste Management Municipal Waste Program. The sub-facility types related to Municipal Waste Operations that are included are Composting Facilities, Land Application, Abandoned Landfills (Abandoned Landfill Inventory), Active and Inactive Landfills, Processing Facilities, Resources Recovery Facilities, and Transfer Stations.

SWF Solid Waste Facilities

VERSION DATE: 09/22/19

This list of Municipal Waste Landfills, Construction and Demolition Waste Landfills, and Resource Recovery (Waste-to-Energy) Facilities is provided by the Pennsylvania Department of Environmental Protection.

VCP Voluntary Cleanup Sites

VERSION DATE: 09/02/19

Also known as Act 2, the Pennsylvania Department of Environmental Protection (DEP) Land Recycling Program encourages the voluntary cleanup and reuse of contaminated commercial and industrial sites. This list includes Completed Sites, Sites In Progress, and Act 2 - Non-Use Aquifer Determinations Sites.

HSCA HSCA Remedial Sites Listing

VERSION DATE: 07/31/17

This list of remedial sites on the Pennsylvania Priorities List (PAPL) is maintained by the Pennsylvania Department of Environmental Protection.

SHWS State Hazardous Waste Sites

VERSION DATE: 09/24/19

The Hazardous Site Response Actions List represents hazardous sites response actions that have been taken since the enactment of the Hazardous Sites Cleanup Act (HSCA) in 1988. The HSCA provides the Department

Environmental Records Definitions - STATE (PA)

of Environmental Protection (DEP) with the funding and the authority to conduct cleanup actions at sites where hazardous substances have been released.

Environmental Records Definitions - TRIBAL

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

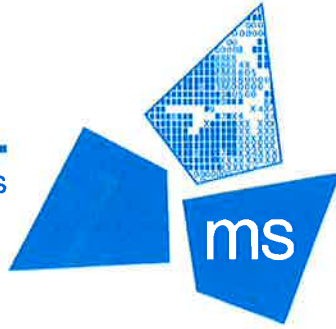
The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.



APPENDIX 4

State Agency Documentation

1.	4.2.1 DEP File Review (Notes)
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Soldiers & Sailors

131356 - 25-90895 (25)

Storage tank # 003 Status C 1000 g Diesel
- No record of contamination

525417 - 25-90895 (25) OST Permitt closure 1000 gasoline

- fulfilled storage tank regulations / no documented Release

1994 Underground Tank Permit 1000 g minor spill
- No threat to human health / welfare Soil Removed

HANOT Med CTR HOSP

93254 400626 (25) Infections / chemotherapeutic waste -
- incinerated / removed. No violations noted.

RCRA - mixed waste (Hazardous / Radiation generator) fly ash.
landed through Airline waste.

77150 400626 (25) Will not affect proposed project
45,000 lbs a month CRU Bay waste.

80705 - 25 - 04648 (25)

Registered Storage Tanks	11/89	5000	Heating oil
	11/89	5000	Heating oil
	11/89	5000	Heating oil

112488 - 25 - 91502 (25)

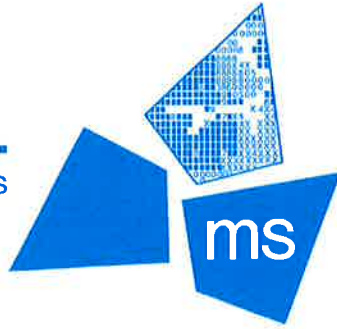
OST closure Report -

installation unknown 8000 Diesel

Date of closure 9/15 / 95

ground water encroached / No strains / odors / 2 soil holes

* Determined No Further Action Required.



HANOT MED CTR HOSP

121495 - 400626 - (25) Facility Pg N/A. ~~Inventory~~

GPU Front Street STA

161070 - 25 - 16342 (25)

- Pennsylvania
Electrical CO

	Storage Tank	Registration	Above Ground Tanks
1)	01/81	50,000	Diesel
2)		100	Diesel
3)		8,000	Hazardous Substance
4)	01/73	5,000	Hazardous substance
5)	01/73	8,500	Hazardous substance
6)	01/52	8,000	Hazardous substance
7)		5,000	used Motor oil
8)		5,000	used Motor oil

* All Removed 1/92.

1) * 1940's 14,000 Heating oil UST 1991 Removed

"Contamination although present is expected to remain confined within confines of complex"

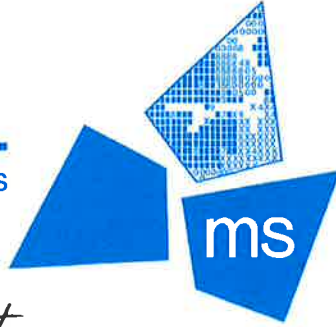
154755
PAD000621748 (25)

Residual Waste Permit

GPU Front Street STA

212700 (25) - See Scan

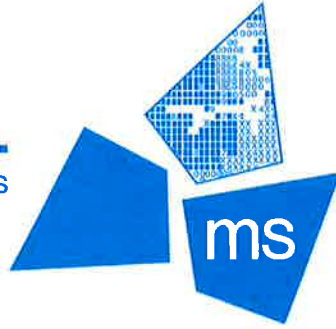
ms consultants inc.
engineers, architects, planners



job no _____ sheet _____
made by _____ date _____
checked _____ date _____
office _____
project _____

GPU Front Street

161076-25-16342 (25)



⇒ Bayshore Marine Terrace tanks # 81333
Registration active 25-90509
25

Proton, 93, New #

5, 2000 gal tanks Concrete Ruffly

Proton

July 21, 1992 UN License Agreement

Concession BTEX Below detection
limits

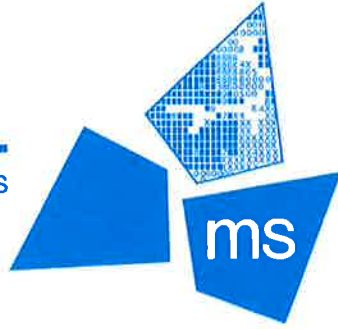
⇒ 049 23907
Permit # / Repts Tanks (3) 269907
049-23907
25

* Oct 20 2005
Fire Tank & Gravel
well location map

⇒ Bayshore Marine Terrace
Dredge Material used on site
9/29/2011

Brick, sand, gravel and fines

"No evidence material was impacted
by a regulated substance"



- Don Jan (rebuilding) & repair facilities 523567
John Nekoloff 814 455 6442
Feb 15, 2017 25

- c. h. waste waters
- process wastewater 7,000 gal

Records of ^{solid} waste sent to Everleor
for disposal / no concerns
at Lakeview landfill

- Eric Sand & Gravel
pans removed
Nov 22, 1994 80757
25-09512
25

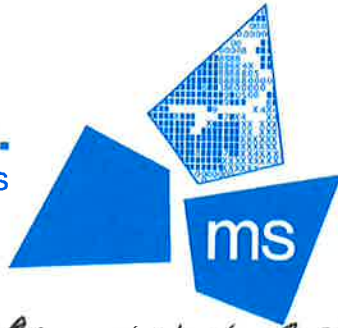
Eric Bayfront Convention
Center now located on Rte

- GAF
Special projects Tech Corresp 720293
25

- Oct 3, 2019
for - Lead substance
emissions from soil cover
DEP request from plan for
implementation for statement

- Eric Greent Aug 29, 2019
Compliance report

- Feb 20, 2017
tetro tech MW-12 - no NAPL Detected



→ Chris Seliappa - New Castle DEP

→ Auto Greenbrook, Christopher Seliappa,
John O'Hara - land recycling
& Brownfields program
Meadville

→ 2/24/15
Parking Deck update
Email

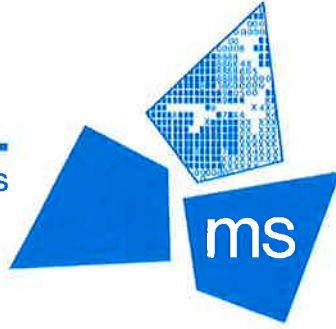
Jan 9, 2015
Compliance reporting certification

→ AMEC 6-16-14
Draft for P10 Remediation Care Plan
Summary

9-25-2014
AMEC - revisions to final
report

↓ relate attendance on
Cleanup Plan back to
Jan 10, 2012

→ GNA Building Materials
Average Tank 5 Avg active
bed 1992 80775
- Jan 1990 25-10424
25



→ 2 Boxes Jan 16 2012

GAP Bldg materials
Special Project Tech Corresp

Hard copy Analytical
Note transmittal

715885
25

→ GAP Building materials 811929
Special Project Tech Corresp 25

FINAL REPORT
Summer GAP
JULY 2014

* Copied Cover, TOC, 27 page report
table, fig 1 & 2

NOTE MW-1, ES 5-3 & 5-1
are non proximate to
Borbon 7 formations

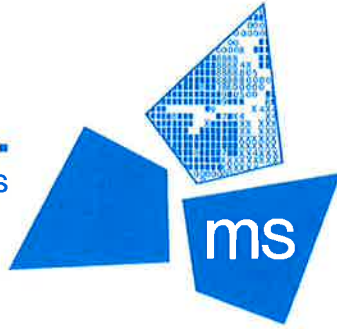
→ GAP Bldg materials 718627
25

Human Health & Ecological Risk
assessment report Feb 11, 2013

(replaces June 14, 2012
report)

* Copied fig 2 & fig 3 and text

ms consultants inc.
engineers, architects, planners



job no _____ sheet _____
made by _____ date _____
checked _____ date _____
office _____
project _____

- GAF BURE materials
Special Project Tech Corresp
10711
Remedial investigation report
Oct 18, 2011

* Copied text of folder # ~~60202~~ #
Drill logs

GPU front street STA
Storage tanks

161074
25-16342
25

Monitoring Report
Feb 1993
- All Clean
- Reloc. of front R box

* Pre app m-vts front street



APPENDIX 4

State Agency Documentation

1.	4.2.1 DEP File Review (GAF)
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GAF

Draft

Environmental Covenant

When recorded, return to: John "Casey" Wells
Erie County Convention Center Authority
809 French Street, Erie, PA 16501

The Property consists of three (3) parcels, which have Erie County Tax Parcel Index Nos. (17)4048-100, (17)4048-101.01 and (17)4048-300.01, respectively.

GRANTOR: Erie County Convention Center Authority
PROPERTY ADDRESS: 218 West Bayfront Parkway, Erie, PA 16501

ENVIRONMENTAL COVENANT

This Environmental Covenant is executed pursuant to the Pennsylvania Uniform Environmental Covenants Act, Act No. 68 of 2007, 27 Pa. C.S. §§ 6501 – 6517 (UECA). This Environmental Covenant subjects the Property identified in Paragraph 1 to the activity and/or use limitations in this document. As indicated later in this document, this Environmental Covenant has been approved by the Pennsylvania Department of Environmental Protection (Department).

1. **Property affected.** The Property affected by this Environmental Covenant is located in the City of Erie (, Erie County, Pennsylvania.

The postal street address of the Property is: 218 West Bayfront Parkway, Erie, PA 16501. The latitude and longitude of the center of the Property affected by this Environmental Covenant is: Lat. 42deg. 08' 3.84" Long. 80 deg 05' 39.12".

The Property has been known by the following name(s): Former GAF Materials Corporation Site. The DEP Primary Facility ID# is.625516; eFacts PF No. 765682

A complete description of the Property is attached to this Environmental Covenant as Exhibit A. A map of the Property is attached to this Environmental Covenant as Exhibit B.

2. **Property Owner / GRANTOR / GRANTEE.** The Erie County Convention Center Authority (ECCCA) is the owner of the Property and the GRANTOR and GRANTEE of this Environmental Covenant.

3. **The mailing address of the owner is:** Erie County Convention Center Authority, 809 French Street, Erie, PA 16501.

4. **Description of Contamination & Remedy.**
The Property was used for the manufacture of asphaltic roofing materials (e.g., tar paper and shingles) from the early 20th century until 2007 when manufacturing operations

stopped. The most recent operator was GAF Materials Corp. who demolished the manufacturing buildings in 2010. Environmental site characterization activities were completed between 2007 and 2010. The Erie County Convention Center Authority took ownership of the Property and submitted an NIR to attain the Site Specific Standard to PADEP in 2010.

A Remedial Investigation Report was submitted in 2011 that identified shingles and tar like material in soil and as a non-aqueous phase liquid (NAPL) in the groundwater. In addition, tar at the surface was present along the shoreline with Presque Isle Bay and a drainage ditch that discharged storm water to the Bay. A risk assessment was submitted to PADEP in 2012 that identified specific constituents within the tar and evaluated risk based on a residential land use. The Cleanup Plan was submitted in 2012 and approved in 2013. That Plan was implemented in 2013 and 2014 and remediation included the following: construction of a slurry wall to contain NAPL on-site; construction of a steel sheet pile sea wall and piping of the storm water drainage ditch to keep tar and roofing materials from the Bay and covering the Site with clean soils or hard surfaces to eliminate the direct contact exposure pathway. The Act 2 Final Report demonstrating attainment with the Act 2 Site Specific Remediation Standard for residential land use was submitted to PADEP in July 2014 and PADEP approved the Act 2 Final Report via their October 9, 2014 letter to the Erie County Convention Center Authority.

5. **Activity & Use Limitations.** The Property is subject to the following activity and use limitations, which the then current owner of the Property, and its tenants, agents, employees and other persons under its control, shall abide by:

- The groundwater beneath the Property shall not be used for any purpose;
- Subsurface structures, such as basements, shall not be constructed on the Property;
- New enclosed structures shall be constructed with vapor mitigation measures as indicated in the Post Remediation Care Plan presented in the Act 2 Final Report;
- The cover system shall be maintained as described in the Post Remediation Care Plan presented in the Act 2 Final Report, and;
- Modifications to the NAPL cut off wall, sea wall or ditch piping must not affect their functionality as components of the Site remediation.

6. **Notice of Limitations in Future Conveyances.** Each instrument hereafter conveying any interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of this Environmental Covenant.

7. **Compliance Reporting.** Starting in the first January following recordation of the Environmental Covenant and biennially after that for two subsequent events, or after written request by the Department following the Departments approval of this Environmental Covenant, the then current owner of the Property shall submit, to the Department, written documentation presenting the results of compliance monitoring

described in the Act 2 Final Report. The Report shall also state whether there has been compliance with the activity and use limitations in this Environmental Covenant.

In addition, within 1 month after any of the following events, the then current owner of the Property shall submit, to the Department, written documentation of:

- Observed presence of NAPL in monitoring well MW-12 (or replacement);
- Noncompliance with the activity and use limitations in this Environmental Covenant;
- Transfer of the Property;
- Changes in use of the Property;
- Filing of applications for building permits for the Property and any proposals for any site work, if the building or proposed site work will affect the contamination on the Property subject to this Environmental Covenant.

8. **Access by the Department.** In addition to any rights already possessed by the Department, this Environmental Covenant grants to the Department a right of reasonable access of the Property in connection with implementation or enforcement of this Environmental Covenant.

9. **Recording & Proof & Notification.** Within 30 days after the date of the Department's approval of this Environmental Covenant, the Erie County Convention Center Authority shall file this Environmental Covenant with the Recorder of Deeds for each County in which the Property is located, and send a file-stamped copy of this Environmental Covenant to the Department within 60 days of recording. Within that time period, the Erie County Convention Center Authority also shall send a file-stamped copy to each of the following: the City of Erie and Erie County; any Holder identified in this Environmental Covenant listed in Paragraph 3.

10. **Termination or Modification.**

(a) This Environmental Covenant may only be terminated or modified in accordance with 27 Pa. C.S. §§ 6509 or 6510, or in accordance with this paragraph.

(b) This Environmental Covenant may be amended or terminated as to any portion of the Property that is acquired for use as state highway right-of-way by the Commonwealth provided that: (1) the Department waives the requirements for an environmental covenant and for conversion pursuant to 27 Pa. C.S. §6517 to the same extent that this Environmental Covenant is amended or terminated; (2) the Department determines that termination or modification of this Environmental Covenant will not adversely affect human health or the environment; and (3) the Department provides 30-days advance written notice to the current property owner, each holder, and, as practicable, each person that originally signed the Environmental Covenant or successors in interest to such persons.

① M.
② changed to be done with PAPCP
③ attach to form - Soil Management

(c) This Environmental Covenant shall terminate upon attainment, in accordance with 35 P.S. §§ 6026. 101 – 6026.908, with an unrestricted use remediation standard for the above-described contamination at the Property. The Department must approve, in writing, of such termination.

(d) In accordance with 27 Pa. C.S. § 6510(a)(3)(i), Grantor hereby waives the right to consent to any amendment or termination of the Environmental Covenant by consent; it being intended that any amendment to or termination of this Environmental Covenant by consent in accordance with this Paragraph requires only the following signatures on the instrument amending or terminating this Environmental Covenant: (i) the Holder at the time of such amendment or termination; (ii) the then current owner of the Property and (iii) the Department.

11. **Department's address.** Communications with the Department regarding this Environmental Covenant shall be sent to:

Gary Mechtly
Northwest Regional Environmental Cleanup Manager PADEP
230 Chestnut St.
Meadville, PA 16335

12. **Severability.** The paragraphs of this Environmental Covenant shall be severable and should any part hereof be declared invalid or unenforceable, the remainder shall continue in full force and effect between the parties.

ACKNOWLEDGMENTS by Owner(s) and any Holder(s), in the following form:

Erie County Convention Center Authority , Grantor

Date:

By: _____
John A. (Casey) Wells
Executive Director

APPROVED, by Commonwealth of Pennsylvania,
Department of Environmental Protection

Date:

By: _____
Anita M. Stainbrook
Regional Manager
Environmental Cleanup and Brownfield Program

OCT 03 2019

Mr. John A. Wells
Executive Director
Erie Events
809 French Street
Erie, PA 16501

Re: Erie County Convention Center Authority Bayfront Site
eFACTS PF No. 625516
eFACTS Activity No. 41999
218 W. Bayfront Parkway, Erie
City of Erie, Erie County

Dear Mr. Wells:

Thank you for your letter of August 29, 2019 (August 29 letter), responding to the Department of Environmental Protection's (Department) correspondence of August 1, 2019, regarding the appearance of a tar-like substance emanating from the soil cover at the above referenced site. Your August 29 letter constitutes a Compliance Report in accordance with Paragraph 7 of the Uniform Environmental Covenant executed for this property on January 22, 2015.

Your August 29 letter stated that the soil cover in the area of the tar-like boils has been excavated to the marker layer beneath the existing cover system. Also, the August 29 letter implies that the incident discussed in the Department's August 1 letter is not the sole occurrence of such tar-like boils breaching the surface. The presence of these tar-like boils through the existing cover system indicates a failure of the selected remedy at this site. The Department is concerned that the existing cover system is insufficient to prevent a complete pathway to the tar-like contamination present at the site.

The liability protection afforded by Land Recycling and Remediation Standards Act (Act 2) for the releases at this site was achieved through attainment of the Act 2 Site-Specific Standard as discussed in "Section 3.0 Attainment" of the Act 2 Final Report approved by the Department on October 9, 2014. The cover system on the site was intended to eliminate direct contact with contaminated material beneath. Thus, prevention of future tar-boils from breaching the cover system is necessary to preserve the Act 2 liability protection for this site.

The Department requests that you submit a work plan and implementation schedule for the investigation and abatement of tar-like boils at this site within 45 days of the date of this letter.

OCT 03 2019

Please feel free to contact John O'Hara by e-mail at joohara@pa.gov or by telephone at 814.332.6978 if you have any questions regarding this correspondence.

Sincerely,



Anita M. Stainbrook
Environmental Program Manager
Environmental Cleanup and Brownfields Program

cc: Chris Schiappa – DEP
John O'Hara – DEP
File

AMS:JWO:keb

PROGRAM ECP CONF Y/N MICROFICHE Y/N
 FILE NAME GAF BLDG MATERIALS
 BREAKDOWN SPEC. PROJ.
 TYPE TECH. COOR.
 COUNTY ERIE MUNICIPALITY ERIE
 COMMENTS _____

OCT 03 2019

Mr. John A. Wells
Executive Director
Erie Events
809 French Street
Erie, PA 16501

Re: Erie County Convention Center Authority Bayfront Site
eFACTS PF No. 625516
eFACTS Activity No. 41999
218 W. Bayfront Parkway, Erie
City of Erie, Erie County

Dear Mr. Wells:

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OCT 03 2019

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Sincerely,



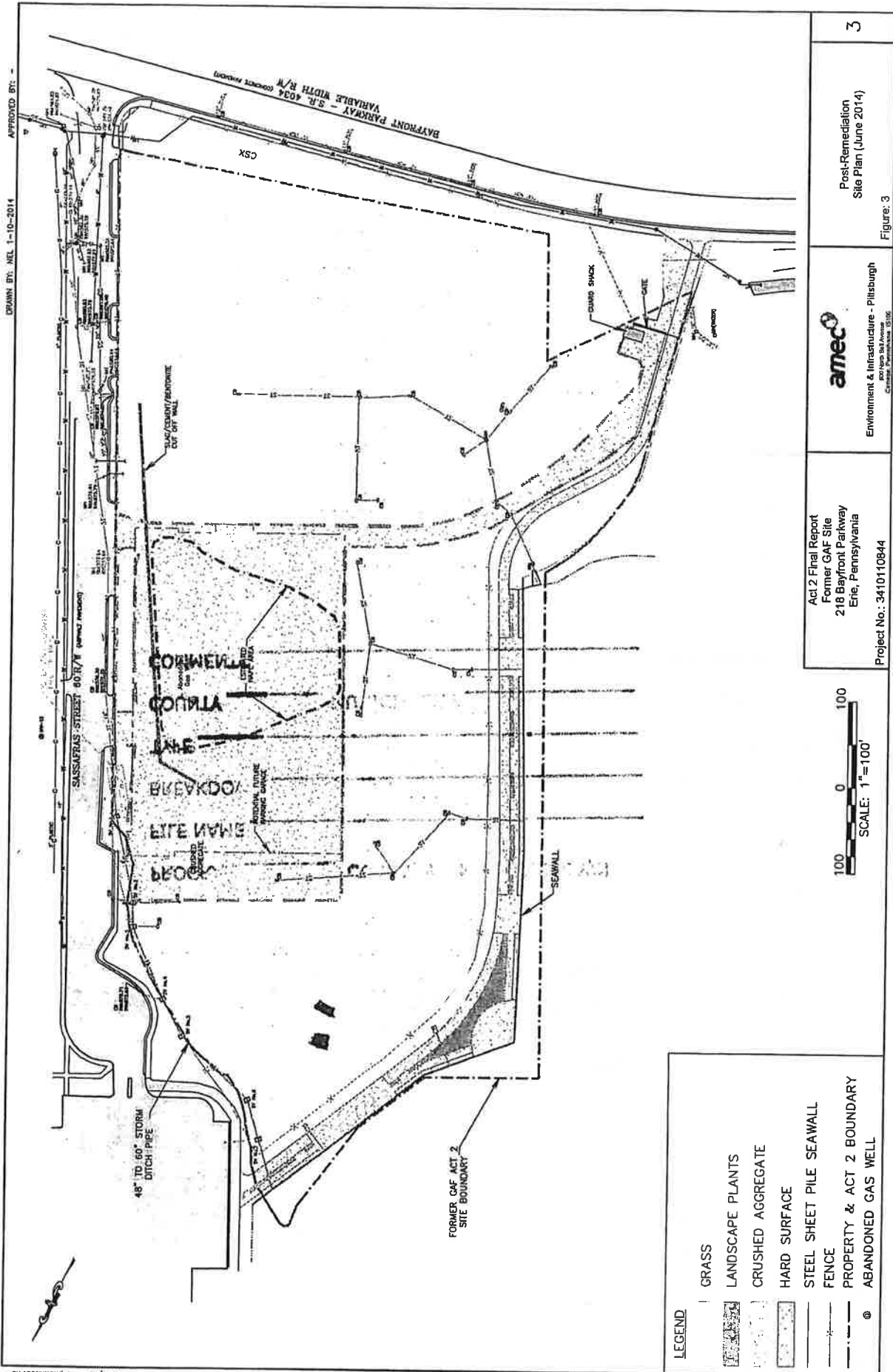
Anita M. Stainbrook
Environmental Program Manager
Environmental Cleanup and Brownfields Program

cc: Chris Schiappa – DEP
John O'Hara – DEP
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FILE NAME GAF BLDG MATERIALS
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COUNTY ERIE MUNICIPALITY ERIE
COMMENTS _____

APPROVED BY: -
 DRAWN BY: MEL 1-10-2014



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LEGEND

	GRASS
	LANDSCAPE PLANTS
	CRUSHED AGGREGATE
	HARD SURFACE
	STEEL SHEET PILE SEAWALL
	FENCE
	PROPERTY & ACT 2 BOUNDARY
	ABANDONED GAS WELL



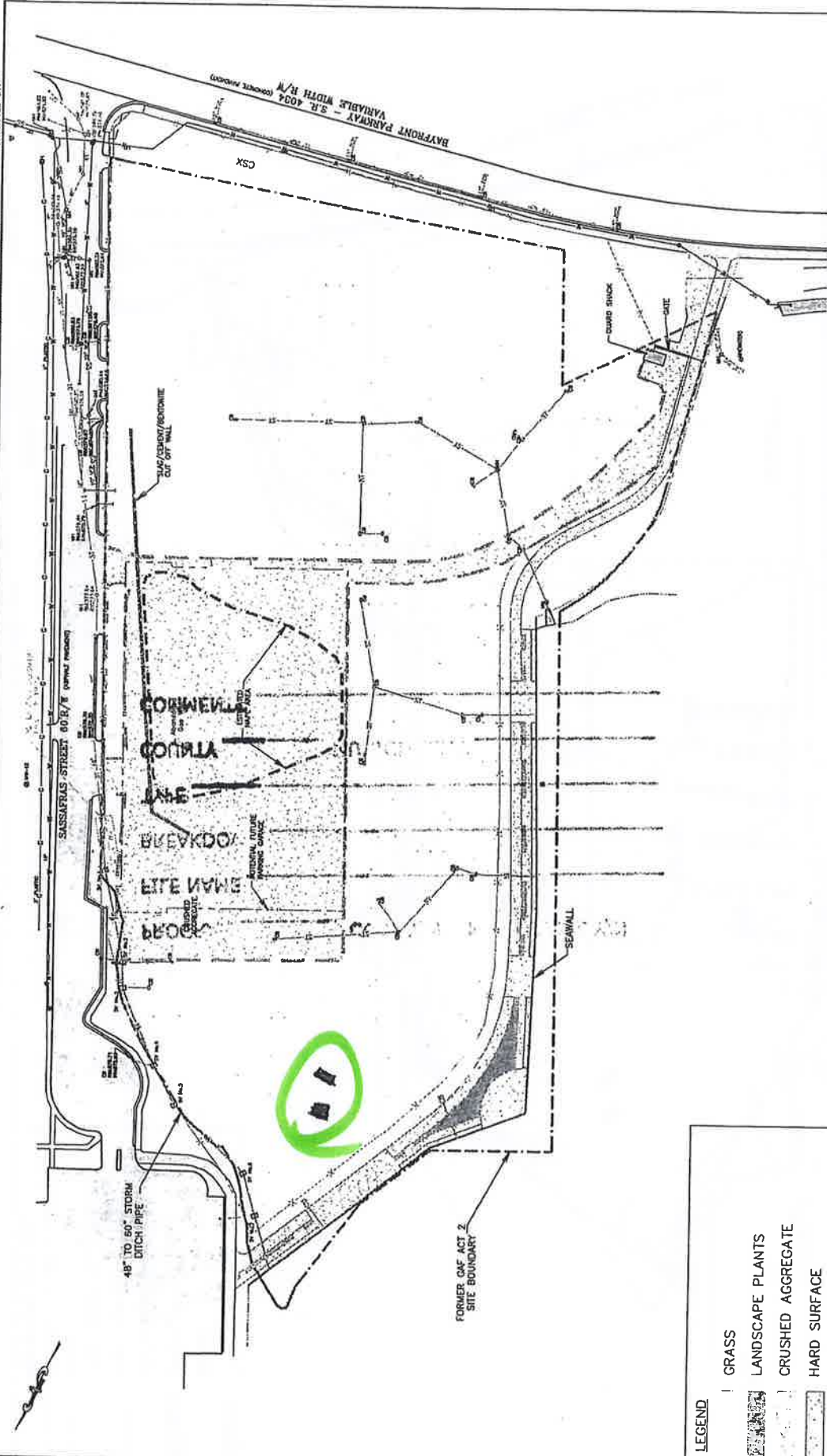
Act 2 Final Report
 Former GAF Site
 218 Bayfront Parkway
 Erie, Pennsylvania
 Project No.: 3410110844

amec
 Environment & Infrastructure - Pittsburgh
 4000 South Avenue, Suite 300
 Pittsburgh, PA 15206-3000

Post-Remediation
 Site Plan (June 2014)
 Figure: 3

APPROVED BY: -
DRAWN BY: NEL 1-10-2014

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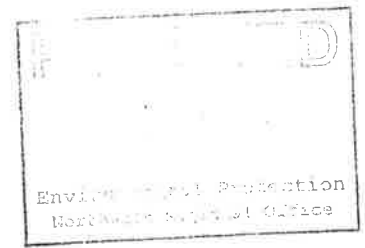


- LEGEND**
- GRASS
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Act 2 Final Report
Former GAF Site
218 Bayfront Parkway
Erie, Pennsylvania
Project No.: 3410110844

amec
Environment & Infrastructure - Pittsburgh
10000 10th Avenue
Pittsburgh, PA 15201

Post-Remediation
Site Plan (June 2014)
Figure: 3



REMEDIAL INVESTIGATION REPORT

**FORMER GAF BUILDING MATERIALS
CORPORATION, INC. SITE**

**218 West Bayfront Parkway
Erie, Pennsylvania 16507**

Prepared for:

ERIE COUNTY CONVENTION CENTER AUTHORITY

Erie, Pennsylvania

October 18, 2011



**AMEC E&I, Inc.
800 North Bell Avenue, Suite 200
Pittsburgh, PA 15106
412.279.6661**

REMEDIAL INVESTIGATION REPORT

FORMER GAF BUILDING MATERIALS
CORPORATION, INC. SITE


218 West Bayfront Parkway
Erie, Pennsylvania 16507



Prepared for:

ERIE COUNTY CONVENTION CENTER AUTHORITY

Erie, Pennsylvania



Joseph A. Senita, P.G.
Principal Hydrogeologist





Pat Pontoriero, P.G.
Vice President

AMEC E&I, Inc.
Pittsburgh, Pennsylvania

October 18, 2011

Project 3410110844

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EXECUTIVE SUMMARY

AMEC E&I, Inc. (AMEC), formerly known as MACTEC Engineering and Consulting, Inc. (MACTEC), has prepared this Remedial Investigation Report (RIR) on behalf of the Erie County Convention Center Authority (ECCCA) for the former GAF Building Materials Manufacturing Corporation (GAF) facility located at 218 West Bayfront Parkway, Erie, Erie County, Pennsylvania (Site). This RIR has been prepared in accordance with the Pennsylvania Department of Environmental Protection (PADEP) Land Recycling and Environmental Remediation Standards Act of 1995 (Act 2); the Act 2 regulations located at 25 PA Code Chapter 250; and the associated Technical Guidance Manual (TGM). In accordance with the regulations, ECCCA submitted a Notice of Intent to Remediate (NIR) the Site under the Site Specific Standard (SSS) to PADEP on December 13, 2010 and made appropriate public notifications. The City of Erie has not requested a Public Involvement Plan.

The RI is a critical part of a larger project being undertaken by ECCCA referred to as the "Former GAF Building Material Site Concept Planning and Remediation Services Project". The project will establish a vision for how the last development site along the City of Erie's Bayfront could be redeveloped. The key goal of the Concept Plan is to guide remediation by identifying the highest and best uses for the site which are compatible with the surrounding area, complementary with the Bayfront Convention Center, and generate revenue for local governments. The Concept Plan will guide environmental remediation at the site so that the highest and best use for the property can be more fully realized. The Concept Plan is currently being prepared; after the Concept Plan is approved by ECCCA and this RIR is approved by PADEP, AMEC will prepare and submit the required Act 2 Risk Assessment Report and Cleanup Plan.

The Site, which consists of approximately 12.46-acres located on the southern shore of Presque Isle Bay, was used to manufacture roll roofing material and asphalt shingles from approximately 1903 to 2007. The Site is bounded to the north and west by Presque Isle Bay (Bay), to the south by an inactive CSX rail line and the Bayfront Parkway, and to the east by Sassafras Street, beyond which is the Bayfront Convention Center. Historically, approximately 9 acres of the Site were occupied by buildings, tanks, above ground pipe runs, and roadways associated with manufacturing. However, by late October 2010, GAF had demolished and removed structures, tanks, and equipment, such that all that remains at the Site are roadways, floor slabs, and foundations. The remaining approximately 3.5 acres contain scrub vegetation, primarily along the Bay shoreline.

Most of the Site is made land, which was created by successively placing fill into the Bay on the northern end of the property over approximately 100 years. The fill contains various materials, including soil, construction debris, tar, waste tarpaper, and shingle trimmings. The ground surface at the Site is relatively flat with an average elevation of approximately 580 feet above mean sea level (ft-amsl). A knoll at the northern end of the Site is approximately 588 ft-amsl.

The fill overlies shale bedrock that is encountered at depths of between approximately 4 to 30 feet below ground surface (ft-bgs) and dips to the north. Groundwater occurs in unconsolidated fill, and flows from the southwest to the northeast where it discharges to the Bay. The depth to groundwater ranges from approximately two ft-bgs (578 ft-amsl) in the southwestern end of the Site to approximately 15 ft-bgs (571 ft-amsl) at the northern end. The mean water elevation of the Bay is approximately 570 ft-amsl. Aquifer testing completed during the RI indicates that the average hydraulic conductivity of the aquifer is approximately 1×10^{-3} centimeters/second (cm/sec).

During the characterization activities that have been used to prepare this RIR, 14 groundwater monitoring wells (12 shallow and two deep) were constructed and over 50 soil borings and five test pits were completed. Groundwater samples were collected from each shallow well during at least two sampling events between 2008 and 2011 and were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), Target Analyte List (TAL) metals, and polychlorinated biphenyls (PCBs). The deep wells were installed to allow for monitoring of hydrogeologic characteristics during aquifer testing.

Between 40 and 50 soil (fill) samples were collected and analyzed for the same parameters. In addition, five sediment samples were collected from the Bay, as were roofing material and solidified tar on the surface of the embankment along the Bay. Four samples of the fill were analyzed for asbestos containing material.

The data presented in this RIR were compared to the Act 2 Residential, Non-Use Aquifer (RNUA) Medium Specific Concentrations (MSCs) since the future land use may include residential activities as defined by Act 2. Non-Use Aquifer MSCs were selected because the City of Erie passed an ordinance that prohibits the use of groundwater for drinking or agricultural purposes within the entire City on June 6, 2007.

The key results of the RI include the following:

- 1) The Site is comprised of made land consisting of roofing materials, construction debris, and soil fill. Solidified tar boils and roofing materials are present on the embankments that form the shoreline with the Bay.
- 2) Numerous SVOCs, along with arsenic and 1,3,5-trimethylbenzene have been detected in samples of the soil (i.e. fill material) collected throughout the Site in concentrations that exceed the respective RNUA MSCs. PCBs were not detected in concentrations exceeding the MSCs. Further delineation of specific exceedances is not likely to be meaningful due to the heterogeneous nature of the fill material.
- 3) A non-aqueous phase liquid (NAPL) plume exists in the central part of the Site along the eastern boundary in the area where tar, asphalt, and other petroleum products were stored and transferred for use in the manufacture of roofing materials. The NAPL is very viscous and contains constituents that float (light phase NAPL [LNAPL]), as well as sink in water (dense phase NAPL [DNAPL]). Given the physical characteristics of the NAPL, its age, and the hydrogeology of the Site, it appears that the boundaries of the NAPL are likely to be relatively stable.
- 4) Groundwater from the Site discharges to the Bay. Groundwater data from perimeter monitoring wells closest to the Bay has been compared to relevant PADEP surface water quality criteria. Based on the data screening presented here, the discharge of groundwater to the Bay does not result in an exceedance of the applicable surface water criteria.

AMEC concludes that sufficient data exists as presented here to complete the Risk Assessment and Cleanup Plan as required by PADEP. The Risk Assessment and Cleanup Plan will be submitted to PADEP following approval of this RIR and completion of the Final Concept Plan that will describe the nature of future land use at the Site. It is anticipated that remediation will consist of both engineering and institutional controls to eliminate complete exposure pathways. Remedial technologies being considered include, but are not limited to, barrier walls, in-situ stabilization, cover system installation, and other measures to eliminate both the direct contact pathway and migration of NAPL.

1.0 INTRODUCTION

AMEC E&I, Inc. (AMEC), formerly known as MACTEC Engineering and Consulting, Inc. (MACTEC), has prepared this Remedial Investigation Report (RIR) on behalf of the Erie County Convention Center Authority (ECCCA) for the former GAF Building Materials Manufacturing Corporation (GAF) facility located at 218 West Bayfront Parkway, Erie, Erie County, Pennsylvania (Site). Figure 1 depicts the location of the Site on the US Geological Survey (USGS) Erie North, PA 7.5-minute topographic quadrangle map.

This RIR has been prepared in accordance with the Pennsylvania Department of Environmental Protection (PADEP) Land Recycling and Environmental Remediation Standards Act of 1995 (Act 2); the Act 2 regulations located at 25 PA Code Chapter 250; and the associated Technical Guidance Manual (TGM). In accordance with the regulations, ECCCA submitted a Notice of Intent to Remediate (NIR) the Site under the Site Specific Standard (SSS) to PADEP on December 13, 2010 and made appropriate public notifications. The City of Erie has not requested a Public Involvement Plan. Copies of the NIR, proof of public notification, and other relevant PADEP correspondence are included in Appendix A.

The RI is a critical part of a larger project being undertaken by ECCCA referred to as the "Former GAF Building Material Site Concept Planning and Remediation Services Project". The project will establish a vision for how the last development site along the City of Erie's Bayfront could be redeveloped. The key goal of the Concept Plan is to guide the remediation process by identifying the highest and best uses for the Site that are compatible with the surrounding area, complementary with the Bayfront Convention Center, and generate revenue for local governments. The Concept Plan will then guide environmental remediation at the site so that the highest and best use for the property can be more fully realized. The Concept Plan is currently being prepared; after the Concept Plan is approved by ECCCA and this RIR is approved by PADEP, AMEC will prepare and submit the required Act 2 Risk Assessment Report and Cleanup Plan.

The information contained herein was generated by MACTEC (AMEC's predecessor company) and others between 2006 and 2011. The primary sources of information used to help prepare this RIR are:

- "Summary Report – Access Road Pre-Excavation Sampling", Environmental Remediation and Recovery, Inc., October 27, 2006 (ER&R, October 2006)

- “Preliminary Soil and Ground Water Investigation Report”, O’Brien & Gere, February 6, 2008 (O&G, February 2008)
- “Phase I ESA” (MACTEC, 2008)
- “Phase II Environmental Site Assessment, GAF Building Materials Corporation Site”, MACTEC June 18, 2009 (MACTEC, June 2009)
- “Ground Water Sampling Event, July 2009”, O’Brien & Gere, October 13, 2009 (O&G, October 2009)
- “DNAPL Removal/Groundwater Elevation Measurement”, O’Brien & Gere, August 9, 2010 (O&G, August 2010)
- “Phase III Environmental Site Assessment Report – GAF Building Materials Corporation Site”, MACTEC, February 11, 2011 (MACTEC, February 2011)
- “Phase III ESA Supplemental Groundwater Sampling and Waste Disposal Documentation”, MACTEC, April 12, 2011 (MACTEC, April 2011).

In addition, in 2009, prior to demolition of Site structures, AMEC collected various samples of dust and building materials collected from building interiors and analyzed them for polychlorinated biphenyls (PCBs) and asbestos. Samples were also collected from a number of aboveground storage tanks prior to their demolition. Data from the building interior sampling are not discussed here further except as it relates to existing surface and subsurface conditions.

As indicated above, there is a significant body of site characterization information relating to environmental conditions at the Site. AMEC understands that the ECCCA has submitted the above documents to the PADEP Northwest Regional office (NWRO). The purpose of this RIR is to summarize the relevant findings in accordance with the Act 2 Regulations and Guidance.

1.1 PROPOSED SITE RE-USE

The purpose of ECCCA’s ongoing Concept Planning and Remediation Program is to identify the highest and best future use for the Site and to remediate the Site in accordance with Act 2 to allow for the realization of that use. Concept Planning is occurring concurrent with the submittal of this RIR and is expected to be completed in early 2012. To provide maximum flexibility for redevelopment, at this time we have assumed that the Site will be remediated to the Site Specific Standard using residential exposure scenarios.

1.2 LIMITATIONS

This document was prepared for the sole use of ECCCA, the only intended beneficiary of our work. No other party shall rely on the information contained herein without prior written consent of AMEC.

AMEC has assembled and evaluated the available information and developed recommendations. The following report presents a summary of information known to AMEC concerning the project site. AMEC has presented its professional opinions based on its professional judgment, experience and training. AMEC believes that its opinions are reasonably supported by the testing and analysis which has been done and that those opinions have been developed according to the professional standard of care of the environmental consulting profession at this time. AMEC cannot attest to the quality or accuracy of the data collected by others, including O'Brien & Gere and ER&R; however, AMEC has not discovered any reason to question the quality or accuracy of that data.

2.0 SITE DESCRIPTION

2.1 LOCATION AND PHYSICAL DESCRIPTION

The Site consists of approximately 12.46-acres located on the southern shore of Presque Isle Bay (Figure 1). The Site is bounded to the north and west by Presque Isle Bay (Bay), to the south by an inactive CSX rail line and the Bayfront Parkway, and to the east by Sassafras Street, beyond which is the Bayfront Convention Center, which is also owned and operated by ECCCA. Historically, approximately 9 acres of the Site were occupied by buildings, tanks, above ground pipe runs, and roadways associated with manufacturing. However, by late October 2010, GAF had demolished and removed structures, tanks, and equipment, such that all that remains at the Site are roadways, floor slabs, and foundations. The remaining approximately 3.5 acres contain scrub vegetation, primarily along the Bay shoreline. The northern boundary of the Site consists of relatively steep embankments to the Bay, as shown on Figure 2, and contains large pieces of concrete and rubble and various fill material covered with scrub vegetation. The western boundary with the Bay consists primarily of an old vertical concrete sea wall in a visible state of disrepair.

Most of the Site is made land, which was created by successively placing fill into the Bay on the northern end of the property over approximately 100 years. As discussed in more detail later, the fill contains various materials, including soil, construction debris, tar, waste tarpaper, and shingle trimmings. Figure 3 shows the approximate location of the shore line from 1913 to the present as reported in MACTEC's 2008 Phase I ESA.

The ground surface at the Site is relatively flat with a low area in the center of the Site. According to the Site survey conducted during MACTEC's 2009 Phase II ESA (prior to demolition), Site elevations range from approximately 578 feet above mean sea level (ft-amsl) in the center of the Site to 588 ft-amsl in the northern end along the Bay. The elevation of most of the Site averages approximately 580 ft-amsl. During demolition activities in 2010, GAF established grades between the ground surface and the elevated building floors by placing crushed demolition debris at the margins of the buildings.

Surface water runoff throughout most of the Site is directed to storm drains that connect to the City of Erie's storm water management system. In the northernmost, undeveloped portion of the Site, storm water appears to flow directly to the Bay. An unnamed creek is tubed beneath Sassafras Street, along

the southern part of the eastern Site boundary. The creek daylights at the approximate mid-point of the eastern boundary (invert elevation approximately 573 ft-amsl) and then flows north in an open channel to its discharge to the Bay (mean elevation approximately 570 ft-amsl). During the Phase III ESA, flow in the creek appeared to be intermittent.

The properties to the east and west have historically been utilized for industrial purposes or as municipal support facilities. The area to the south is the urbanized downtown area of the City of Erie. In recent years, areas of the bay front have been redeveloped by the City and others into the Bayfront Convention Center, tourist attractions, condominiums, and marinas. North of the Bay is Presque Isle State Park.

2.2 SITE HISTORY

Between approximately 1903 through 2007, the Site was used for the manufacture of residential and commercial asphalt roofing products. The process utilized tar, crushed stone, ground talc, and paper products as the raw materials. The Site produced rolled roofing material for industrial and commercial applications and roofing shingles for residential applications. Manufacturing operations had ceased at the Site by March 2007, and by the end of October 2010, GAF had demolished and removed structures, tanks, and equipment, such that all that remains at the Site are roadways, floor slabs, and foundations. The Site was acquired by ECCCA from GAF in November 2010.

Records reviewed during the 2008 Phase I ESA indicate that the Site contained numerous buildings constructed between 1903 and 1990. When manufacturing activities ceased in 2007, various separate structures were present on the Site that occupied approximately 9 acres. Figure 2 shows the locations of these structures, and a summary of the locations and uses of these buildings is provided in the following table:

Building Number	Location	Former Use
1	Northern end of Site	Warehouse
3	Southeast corner of Site	Main Office
4	Southern portion of Site	Storage
5		
16		

Building Number	Location	Former Use
6	South-central portion of Site, north of southern rail spur	Compressor Room
6A		Lunch Room
7		Storage/Breezeway
7A		Storage/Breezeway
19		Storage
8	Northern portion of manufacturing area, south of Tank Farm	Old Tar Stills
9		Line 2 (Rolled Roofing) Mill
20		Storage
40		Stills
21		Line 1 (Residential Roofing) Mill
37		Line 1 Cutter
10		Line 1 Wrapper/Palatizer
11	West of 500,000-gallon AST	Limestone Silo
13	East of Tank Farm	Boiler House
--	West of Building 13	Main Transformer Building
39	Western side of central area	Shear Shop
45	North of 500,000 gallon AST	Main Storage
38	East of 500,000 gallon AST	Sand Silos
49	Immediately east of Building. 38	Sand Dryer

At least 26 large-capacity ASTs were utilized in the process in the recent past. These included a 500,000-gallon tar storage tank (Tank 1) and numerous smaller tar storage and distillation tanks (Figure 2). Additionally, a number of aboveground hoppers were located at the Site, and were used for storage of stone, sand and talc products. The ASTs contained various products and were not necessarily in service at the time of the plant closure. The following table provides a summary of the ASTs listed in the records for the Site.

Tank Number	Capacity (gallons)	Contents
1	500,000	Asphalt
2	150,000	Asphalt*
4	30,000	Asphalt
5	97,000	Asphalt*
6	13,800	Asphalt*
9	Unknown	Cooling Water
13	12,000	Asphalt
14	6,000	Used Oil
15	2,100	Gas Well Brine
16	660	Asphalt
17	150	Asphalt
18	1,100	Asphalt
19	330	Asphalt
20	225	Asphalt

Tank Number	Capacity (gallons)	Contents
21	225	Asphalt
22	500	Hot Oil Transfer
23	500	Hot Oil Transfer
24	500	Diesel
1D	17,038	Asphalt*
2D	17,038	Asphalt*
3D	17,038	Asphalt*
4D	17,038	Asphalt
5D	17,038	Asphalt
6D	17,038	Asphalt*
--	275	Kerosene
--	1,000	Propane

“*” - indicates AST was out of service prior to plant closing in 2007.

“--” indicates no tank number assigned.

2.3 HISTORIC MANUFACTURING PROCESSES

The information provided in this section was gathered from GAF representatives, a PADEP file review, a review of documents from the Erie County Health Department, and a review of data produced by GAF, as reported in the MACTEC Phase I ESA and Phase II ESA in 2008 and 2009. Currently, the Site is unused. All manufacturing operations ceased in March of 2007 and by the fall of 2010 all of the aboveground structures had been removed such that only floors and foundations remain, except for a fence around the perimeter of the Site and a guard house at the Bayfront Parkway entrance. Basement or crawl space areas have been observed beneath at least a portion of the southernmost buildings. The basements were sealed off during the 2010 demolition activities, however, a hole in the floor slab remains through which standing water was observed during the Phase III ESA.

The Site contained two manufacturing lines that used similar processes and equipment. The production process began with a spool of felt paper or fiberglass sheet on the manufacturing lines in Buildings 9 and 21 (Figure 2). The paper was uncoiled and fed as a strip through the mill. Heated asphalt was applied to the strip via spray heads and/or dip tanks and rolling equipment was used to assist in saturating the paper. The paper then passed through steam heated drums for drying. The asphalt saturated paper was then “filled” utilizing sand. Talc, soapstone, mica or sand was then applied to the back of the paper to prevent sticking. The saturated paper then passed through a granule applicator where pigmented granules were pressed into the strip.

Drums in the mill line were fed with non-contact cooling water to cool the strip, solidifying the asphalt. At the end of the line, the paper was treated by applying self-seal glues and was either re-coiled into rolled roofing for commercial buildings (Line 2) or cut into shingles for residential applications (Line 1). The trimmings from the shingles were used on the Site as fill for a significant portion of the history of the operation. Given the materials produced on the Site, it is very likely that asbestos containing felt paper was used in the process for many years. Asbestos containing roofing materials were in common use in the United States from the mid-1930's through the late 1970's.

The process also contained a tar refining operation, whereby low-melting point (approximately 170° F) tar was heated in tanks and placed into an asphalt blowing drum to drive off light-end petroleum compounds. In the asphalt blowing drum, air bubbles were forced through the heated tar for a period of up to six hours. The refining process utilized a series of boilers located in the northern process buildings. Historically, some of the boilers were coal and wood-fired. Several of the coal/wood-fired tar heating tanks were idled and the remaining tanks were converted to natural gas fuel and were in use when the plant was shut down in 2007. The tar was refined into a higher melting point (approximately 300° F) product, which was used in the process. The lighter end petroleum hydrocarbons were distilled, collected in Tank 14 and sent off-site for recycling. Non-condensable hydrocarbons were sent through an emission control device and the treated vapors were vented to the atmosphere.

Ancillary processes included receiving of raw materials via rail and truck, storage, management and distribution of raw materials to the processes, storage of finished products in warehouses, shipping of the finished products via trucks, maintenance activities, and operation of a boiler house supplying steam to plant processes. The raw product receiving and warehousing was located primarily on the south end of the plant. Low melting point tar was contained in several large aboveground storage tanks located north of the main plant buildings. Various colors of roofing sand were also stored in silos in this area. Warehouses at the northern end of the Site were used primarily for storage and shipping of finished products. Maintenance facilities were present in various locations throughout the buildings at the Site. The boiler house (Building 13) was located in the central portion of the east side of the Site.

3.0 SITE CHARACTERIZATION METHODS

Table 1 presents a summary of site characterization activities completed since 2006; these have included completion of 5 test pits, 57 soil borings, and construction of 14 groundwater monitoring wells. As shown on Table 1, numerous soil, groundwater, sediment, and NAPL samples have been collected and analyzed for a wide variety of analytes.

Table 2 presents a summary of the monitoring well construction and soil boring completion details. Soil boring, test pit, and monitoring well completion logs are included in Appendix B and photographs of subsurface materials are provided in Appendix C. The results of the Site characterization activities are presented in Section 4 and the analytical data, including chain of custody documentation, is included on a compact disk (CD) in Appendix D.

3.1 TEST PITS AND SOIL BORINGS

3.1.1 Test Pits

During the Phase II ESA in March 2009, five test pits were advanced in the locations referred to as TP-1 to TP-5 shown on Figure 4. Test pits allowed for a better visual observation of the subsurface than soil borings and were advanced in areas such as the former lagoons, the location of the surface tar expression, and east of the former lagoons.

AMEC subcontracted Terra Testing, Inc. of Washington, Pennsylvania to provide a backhoe and operator for excavating test pits for this project. The test pits were approximately five feet long, by approximately three feet wide, by approximately six feet deep. Groundwater was encountered only at test pit TP-4 at a depth of approximately 5.5 ft-bgs. After completion of the field work, the test pit locations were surveyed by Sanford Surveying and Engineering, a Pennsylvania professional land surveyor, for horizontal location and ground surface elevation.

One soil sample was collected from each of test pits TP-4 and TP-5 at a depth of five to six ft-bgs. The soil samples were collected from the bottom of the pit with the excavator bucket and brought to the surface. The two sample locations were selected by visual observations, with the samples being biased toward more visibly impacted soils. The selected soil was then transferred into sample containers provided by the laboratory. Samples to be analyzed for Target Compound List (TCL)

Volatile Organic Compounds (VOCs) were collected using Terra Core sampling kits in accordance with USEPA SW-846 Method 5035. Soil samples collected for the remaining parameters were collected by placing the soil directly into unpreserved glass sample jars. The samples were then logged onto a chain of custody form and placed in coolers on ice for shipment to the laboratory.

The samples were shipped under chain-of-custody to TestAmerica, Inc. (TestAmerica) in Pittsburgh, Pennsylvania, which is a Pennsylvania-registered laboratory. The soil samples from the test pits were analyzed by the laboratory for TCL VOCs by USEPA SW-846 Method 8260, TCL Semi-Volatile Organic Compounds (SVOCs) by USEPA SW-846 Method 8270, Target Analyte List (TAL) metals by USEPA SW-846 Methods 6010 and 7471 (mercury), and Polychlorinated Biphenyl Compounds (PCBs) by USEPA SW-846 Method 8082.

3.1.2 Soil Borings and Soil Sample Analyses

A total of 57 soil borings were completed in the unconsolidated material at the Site between 2006 and 2010 (Table 1). Four of those borings (MW-3D, MW-4D, MW-10, and B-9) were completed approximately 10 ft into the shale bedrock during the Phase III ESA. A total of 14 of the borings were converted to groundwater monitoring wells as described in Section 3.3. Boring B-9 was backfilled with bentonite to approximately 3 feet above the top of bedrock, followed by drill cuttings to the ground surface. The remaining borings were backfilled with cuttings. Soil boring completion details are summarized on Table 2, locations are shown on Figure 4, and boring logs are provided in Appendix B.

Soil borings SB-1 through SB-12, completed by ER&R in 2006 (referred to on the figures with the SSB prefix to avoid confusion with subsequent "SB" boring identification by O'Brien & Gere), were completed using a hand auger to depths less than 2 feet. All of the other borings in the unconsolidated material were completed using hollow stem auger drilling techniques. Split barrel samples were collected from the unconsolidated material as indicated on the logs (Appendix B) to allow for visual description and field screening for VOCs using a Photoionization Detector (PID). Bedrock coring completed at boring locations B-9, MW-3D, MW-4D, and MW-10 was accomplished using a 2 1/8 inch NX rock corer that was advanced 10 feet into bedrock through the hollow stem augers. The core was retrieved, placed into boxes, and logged.

Many of the soil borings were completed beneath asphalt or concrete surfaces. At those locations, access to the subsurface was accomplished using either a concrete corer or asphalt saw. During the Phase II and Phase III ESA, drill cuttings that were not visibly impacted were placed back in the borehole upon completion. Those that were visibly impacted were placed into 55 gallon drums, characterized for waste approval, and disposed of off-site. All of the waste generated during the Phase III ESAs were characterized as non-hazardous residual waste and disposed of at McCutcheon Enterprises, Inc.'s disposal facility in Apollo, Pennsylvania. Prior to the Phase III ESA, disposal was completed by GAF.

Prior to drilling, the required PA One Call notifications were made, and the proposed drilling locations were marked in the field with a GAF representative familiar with the Site. During the Phase III ESA, the soft drill (a.k.a. air knife) method was employed to approximately 4 to 5 ft-bgs to minimize the risk of encountering an underground obstruction. Underground pipes were encountered at the initial locations for borings B-3, B-12, and B-16, as indicated on the boring logs.

3.1.3 Soil Sample Analyses

Table 1 presents a matrix of soil sample analyses. A total of 12 soil samples were analyzed by ER & R in 2006 for the PADEP Diesel Petroleum Short List analytical list plus lead. A total of 49 soil samples were collected between 2008 and 2010 and analyzed for:

- TCL VOCs
- TCL SVOCs
- PCBs

In addition, a total of 21 soil samples were analyzed for TAL metals; 4 were analyzed for asbestos; and five were analyzed for grain size distribution and plasticity limits.

Representative soil samples were collected in appropriate laboratory-supplied containers and submitted to TestAmerica (fka Severn Trent Laboratories) following routine chain of custody procedures. Soil samples for TCL VOC analyses were collected using Terra Core sampling devices using US EPA Method 5035. A laboratory prepared trip blank accompanied each sample shipment containing samples for VOC analysis.

Three soil samples and one bulk sample of tar paper observed on the western side of the Site (Figure 4) were collected from soil/fill materials for asbestos analysis. These samples were collected from the materials returned from the split spoons in borings S-11, S-12, and MW-8. The bulk sample referred to as ABS-Out 4 on Figure 4 was collected from a roll of tar paper protruding from the western site boundary near the Bay. The samples were analyzed by R. J. Lee Group by washing and analyzing the wash using transmission electron microscopy (TEM).

3.2 GROUNDWATER MONITORING WELL INSTALLATION AND SAMPLING

A total of 12 shallow monitoring wells were completed in the unconsolidated material (MW-1 through MW-12) and two deep wells were installed in the shale bedrock (MW-3D and MW-4D) during the Site characterization work (Figure 4). Well completion details are summarized on Table 2 and well completion logs are provided in Appendix B.

3.2.1 Monitoring Well Construction

Each of the wells is constructed with 2-inch inside diameter (ID), schedule 40 polyvinyl chloride (PVC) casing with 10-foot lengths of 0.010-inch machine-slotted PVC screen and flush-threaded end caps. Wells MW-3D and MW-4D were completed approximately 10 feet into bedrock with 5 foot long screens having 0.020-inch machine slotted screen.

The riser portion of each well is constructed of flush-threaded Schedule 40 PVC riser pipe. The well casing was assembled and placed into the auger to the bottom of the borehole. While removing the augers from the borehole, the annular space around the well screen was backfilled with a pack of medium-grained sand. The sand filter pack extended to approximately one to two feet above the top of the well screen. A one to two-foot thick neat bentonite seal was then placed above the sand pack. While continuing to remove the augers, the annular space above the bentonite seal was filled with a concrete seal to ground surface. The PVC riser pipe was cut slightly below the ground surface at each location and the wells were finished with a flush-mount protective cover, set in the concrete. A watertight, locking well cap was placed into the PVC riser pipe at each location.

Monitoring wells were developed to remove fines from the wells that may have been liberated during drilling. Development began with measurement of the water level and total depth of the well. Well development was accomplished by bailing to remove sediment to ensure adequate communication

between the well and surrounding formation. Development water that was not visibly impacted was discharged to the concrete/asphalt surface. Visibly impacted water was containerized and disposed of appropriately offsite as non-hazardous liquid waste. Sanford Engineering surveyed the horizontal and vertical location of monitoring wells (MW-1 through MW-12) in December 2010. Those data are used on Table 2.

Groundwater level measurements were collected as wells were constructed between 2008 and 2010 and that data is summarized on Table 2. During the 2009 Phase II ESA, AMEC observed approximately 5 feet of Dense Non-Aqueous Phase Liquid (DNAPL) at the bottom of well MW-5. That well was installed by O'Brien & Gere in 2007, at which time there was no DNAPL observed; however, their well log did note black staining and strong petroleum odor. As a result of the observed DNAPL during the Phase II ESA, O'Brien and Gere completed limited DNAPL recovery from the well between March and June 2010. The results of those activities are discussed in Section 4.1.2.

3.2.2 Groundwater Sampling

As shown on Table 1, groundwater samples have been collected from each of the shallow ground water monitoring wells on Site on at least two occasions since 2008. The samples were collected into appropriate laboratory-supplied containers and submitted to TestAmerica for various analyses following routine chain of custody procedures. Chain of custody documentation is included with the laboratory reports in Appendix D. As shown on Table 1, samples have been analyzed for TCL VOCs by USEPA SW-846 Method 8260, TCL SVOCs by USEPA SW-846 Method 8270, and dissolved TAL metals by USEPA SW-846 Methods 6020 and 7470 (mercury). In addition, groundwater samples collected from wells MW-1 through MW-9 were analyzed once for PCBs by USEPA SW-846 Method 8082.

During Site characterization activities, groundwater sampling was conducted at the wells using either low flow sampling techniques or by hand bailing. During low flow sampling, groundwater was purged from the wells at rates less than 100 milliliters per minute (ml/min) using a peristaltic pump and dedicated tubing. Groundwater parameters, including pH, conductivity, temperature, and dissolved oxygen, were continuously measured during purging activities and recorded in the field logbook every three to five minutes. Once parameters had stabilized to within $\pm 10\%$, the groundwater samples were collected. During hand bailing sampling activities, standing water volumes were first calculated in each well using water level and total depth measurements and a new,

disposable bailer was used to purge three well volumes from the well. After three well volumes were evacuated, or if the well went dry (whichever occurred first), the groundwater samples were collected.

Routine QA/QC procedures, including the collection and analyses of replicate samples, and analyses of laboratory prepared trip blanks, were followed during the sampling activities. Samples analyzed for TAL metals were filtered through a 0.45 µm filter by the laboratory and, therefore, were not preserved until filtering was complete.

3.2.3 NAPL Sampling

During the Site characterization activities, two samples of DNAPL were collected from well MW-5 and submitted to TestAmerica. The first DNAPL sample was collected on April 24, 2009 using a bailer and the sample was analyzed for TCL VOCs, TCL SVOCs, and PCBs using the same methodology as the soil samples. That sample was also analyzed for hydrocarbon fingerprinting by USEPA SW-846 Method 8015.

The second DNAPL sample, collected on November 2, 2010 using a bailer, was analyzed for TCLP List VOCs, TCLP List SVOCs, TCLP List metals, ignitability, reactive cyanide, reactive sulfide, and corrosivity.

3.2.4 Aquifer Testing

AMEC performed rising head “slug” tests at wells MW-3, MW-3D, MW-4, and MW-4D on November 1 and 2, 2010. The purpose of the slug test was to obtain groundwater recovery data used in calculating the estimated hydraulic conductivity of the aquifer in the immediate vicinity of the well.

The slug tests were performed using a disposable bailer (to quickly remove a “slug” of approximately one liter of groundwater) along with a Mini-Troll pressure transducer connected to a Trimble Pocket PC data logger (to measure and record changes in groundwater level). First, the pressure transducer was lowered to approximately one foot above the bottom of the well. Second, the bailer was gently lowered until it was completely submerged. Once the water level had stabilized, as evidenced by stable water level readings shown on the data logger, the bailer was quickly withdrawn from the well. Groundwater recovery was measured and recorded by the Mini-Troll on a logarithmic time scale as shown on the data collection logs in Appendix E.

Multiple slug tests were completed at the wells on November 1, 2010, except for well MW-4D. Groundwater recovery at well MW-4D was so slow that groundwater had not recovered to its static level within 4 hours after the removal of one bailer full of water. Therefore, the test was repeated at well MW-4D on November 2, after the groundwater had returned to a static level.

3.3 SEDIMENT SAMPLING

During the 2009 Phase II ESA, five sediment samples (SED-1, SED-3, SED-4, SED-5, and SED-6) were collected from Presque Isle Bay (Figure 4) and from the unnamed stream to the east of the Site. The Bay samples were collected using an Eckman dredge. A sixth sediment sample (proposed location SED-2) could not be collected due to inadequate return of material with the dredge. During the collection of samples SED-1 and SED-4, which were located near the shoreline, the dredge was bolted to a sampling staff containing a trip mechanism for the dredge. The sample locations were accessed by wading to an area containing fine sediments and the dredge was pushed into the sediment.

The trip mechanism was used to release the dredge buckets and close the dredge. Samples were carried to shore and placed into a stainless steel bowl prior to placement into sample jars. In deeper water, a boat was used to access the sample location (SED-3), and the dredge was lowered to the bottom on a rope. A metal messenger was placed on the rope and dropped to the dredge to trip the buckets. The dredge was then pulled back on board and opened to retrieve the sample. Sediment samples SED-5 and SED-6, from the unnamed stream, were collected by scooping the sediment directly into a stainless steel bowl prior to placement into sample jars. In all cases, any large rocks were removed from the sample and the sample was placed into an unpreserved 8-ounce glass sample jar for shipment to the laboratory. The samples were placed into a cooler on ice and logged onto a chain of custody for delivery to the laboratory. The sediment samples were delivered to TestAmerica for analysis of TCL SVOCs, PCBs, and TAL metals, by the same methodologies as the soil samples, and for total organic carbon (TOC) using the Lloyd-Kahn method.

3.4 SHORELINE TAR SAMPLING

During the Phase II ESA, tar was noted expressing from the bank along the north and west shorelines on the Bay. A photograph of this material on the northern shoreline is provided in Appendix C. On April 2, 2009, a sample of the tar was collected by chipping pieces off and placing them into a glass

sample jar. The sample, identified as "EMBANKMENT" (Figure 4), was analyzed by TestAmerica for TCL VOCs, TCL SVOCs, PCBs and TAL metals by the same methodologies as the soil samples.

4.0 SITE CHARACTERIZATION RESULTS

The results of the various site characterization activities are summarized in this section. For screening purposes, data were compared to Act 2 Residential Non-Use Aquifer Statewide Health Standard Medium-Specific Concentrations (RNA MSCs); soil and groundwater RNA MSCs are presented with the data where appropriate. Relevant regulatory standards for the other media analyzed are also presented as appropriate.

4.1 SITE GEOLOGY AND HYDROGEOLOGY

Erie is located within the Eastern Lake Section of the Central Lowlands Physiographic Province. This area is glaciated and generally consists of a thin layer of unconsolidated sediments overlying bedrock. The depth to the top of bedrock in the City of Erie is usually less than 25 feet, and commonly less than 10 feet. Unconsolidated sediments overlying bedrock along Lake Erie consist of a thin layer of glacio- and lacustrian sediments. These deposits include sand, gravel, silt, and clay derived from glacial beach and lacustrian sources. Bedrock beneath the Site is identified as the Northeast Shale, which is described as a generally poor aquifer due to relatively low yields and high concentrations of iron, chloride, and dissolved solids¹. According to a report authored by Richards², "the Northeast Shale does not have the potential for a good potable water supply due to generally poor water-bearing characteristics and poor water quality".

As reported in earlier reports and shown on the boring logs, the Site is comprised of "made" land, that is, buildable land made by placing fill materials into Presque Isle Bay over an approximate period from 1903 through the 1970's. Observations recorded on logs provided in Appendix B are consistent with that interpretation. At one time, the natural shoreline was likely located at the base of a steep escarpment immediately south of the Site in an area that is now the Bayfront Parkway.

Based on soil boring observations from Site characterization activities, the fill material at the Site falls into two general categories. The first is predominately brown silt with bricks, gravel, and slag like material with some solidified tar. This type of material was encountered in the southern portion of the Site (including and south of borings B-6 and B-8) as well as along the western perimeter of the Site (including borings B-12, MW-3D, and MW-6). The tar like material observed

¹ H.J. McCoy, 1985, "Pennsylvania Ground-Water Resources" in "National Water Summary 1984, Hydrologic Events Selected Water-Quality Trends and Ground-Water Resources," U.S. Geological Survey Water Supply Paper 2275, Washington, D.C.

² David B. Richards, H. Jack McCoy, John T. Gallaher, "Groundwater Resources of Erie County Pennsylvania", Water Resources Report 62, 1987.

in this area had very little odor and was immobile. That material was absent at B-12 and MW-3D, however, at those locations, roots and woody vegetation were observed in the subsurface.

The second general type of fill material that occupies approximately half of the Site (i.e., from borings B-10 north and B-12 east) contained varying amounts of shingles, tar paper, multi colored sand (brown, blue, red, and green) apparently used in making shingles, viscous tar like material, slag, sand, and gravel. In general, the amount of shingles and multi-colored sand observed increases to the north, whereas the mixture is more heterogeneous to the south. The shingle and tar paper material showed various degrees of weathering and compaction. In some locations it was loose and friable, whereas at others it was very compact and had the characteristics of dense clay. Observations regarding the occurrence and extent of the viscous tar like NAPL material are discussed further below in Section 4.1.2.

At most locations, the fill material was underlain by approximately 0.3 to 1.0 feet of fine sandy silt with some shell and root fragments, interpreted to be native material. At borings B-1, B-2, and B-3 the fill material extended to the top of bedrock and the native material was absent. The fill material is heterogeneous; therefore, the logs should be referred to for the best available information on subsurface conditions in a specific area of the site.

The depth to refusal (interpreted as the top of bedrock) elevation data is presented on Table 2 and that data was used to prepare the bedrock surface contour map shown on Figure 5. The depth to the top of bedrock ranges from approximately 7.2 ft-bgs at boring B-9 along the southern boundary of the Site to approximately 30 ft-bgs at the northern boundary (boring B-11). From Figure 5 it can be seen that the bedrock surface generally dips to the north. In the southern part of the Site the surface dips sharply north with a slope of approximately 0.05 feet/foot. The surface flattens to a slope of approximately 0.005 feet/foot in the central part of the Site between boring B-8 and monitoring well MW-9 and then dips sharply to the north again, with a slope of approximately 0.03 feet/foot between MW-9 and the northern Site boundary.

A review of Figure 5 reveals the following other noteworthy features:

- 1) Southeastern corner of the Site: The bedrock surface dips sharply to the east in this area which could be indicative of where the unnamed tributary flowed and discharged to the Bay prior to filling activities. The bedrock surface is approximately 8 to 10 feet below the bottom of the present unnamed creek along the northeastern Site boundary.

- 2) Eastern Site boundary: The bedrock surface dip has a more northeasterly direction (toward the Convention Center).
- 3) Central part of the Site: While the bedrock surface is relatively flat, some small depressions and mounds may exist as indicated by data from borings B-3, B-15 and B-13.

4.1.1 Groundwater Flow Direction and Aquifer Testing

Groundwater elevation data from January 2008 to November 2010 is presented on Table 2. Data from November 2010 was used to prepare the groundwater contour map on Figure 6.

The groundwater table occurs in the shallow wells within the unconsolidated fill material throughout the entire Site. The depth to groundwater at the Site ranges from approximately 2 ft-bgs (580.19 ft-msl) at MW-7 to approximately 11.29 ft-bgs (571.76 ft-msl) at MW-10. According to data from NOAA's Erie PA Station ID 9063038 ([www.http://tidesandcurrents.noaa.gov](http://tidesandcurrents.noaa.gov)) the water level in the Bay at the time of the November 2010 groundwater measurements was approximately 570.50 ft-msl. As depicted on Figure 6, groundwater flow direction is generally north with components of flow to the northeast and northwest.

Groundwater elevation data from the only two wells completed within the upper bedrock at the site (MW-3D and MW-4D) is shown on Table 2. The water elevation in MW-3D was 571.66, which is 0.19 feet lower than its shallow counterpart MW-3 and the water elevation in MW-4D is 571.94 ft-msl, which is 0.81 feet lower than its shallow counterpart MW-4. Horizontal groundwater flow direction in the bedrock aquifer cannot be determined since only two bedrock wells exist, but it likely corresponds closely to flow direction in the overburden aquifer.

The Bay is the regional groundwater discharge feature. The unnamed creek affects on groundwater flow direction in the eastern part of the site is less clear. The creek along the eastern boundary is a man-made feature that was extended to convey runoff to the Bay, as the "made land" was extended into the Bay. As shown on Figure 6, the invert elevation where the tubed section of the creek daylights along Sassafras Street is 573 ft-msl, which is the same elevation as it is where the creek ultimately discharges to the Bay. Groundwater in the vicinity of the creek in November 2010 appeared to be at least 0.5 ft to 1.0 ft below the bottom of the creek. Observations of the creek in November 2010 revealed that there was no flow discharging overland to the Bay and some areas of standing water were observed.

The hydraulic conductivity was calculated using the rising head slug test data and the Bower and Rice Method (1976). Results of the rising head slug test and the calculations used to estimate the hydraulic conductivity are presented in Appendix E. In accordance with the testing methodology, approximately one liter of water was removed from the monitoring wells and recovery was monitored until nearly a static water level was achieved. At MW-3, groundwater recovery was very fast (less than four seconds). This response is at the practical limit of using a slug to determine hydraulic conductivity. As shown in Appendix E, the hydraulic conductivity of the unconsolidated formation at MW-3 is on the order of, or higher than, approximately 5.5×10^{-2} centimeters per second (cm/sec). Testing was also conducted at MW-4, another shallow well. Three separate tests were conducted at that well. The calculated hydraulic conductivity values for tests from MW-4 were 9.0×10^{-4} cm/sec, 3.2×10^{-4} cm/sec, and 7.9×10^{-4} cm/sec, with an average estimated hydraulic conductivity calculated to be 6.7×10^{-4} cm/sec.

Slug tests were also conducted in two bedrock wells. Two tests were conducted at well MW-3D and one test was conducted at MW-4D. The estimated hydraulic conductivity calculated for bedrock well MW-3D was 7.5×10^{-4} cm/sec and 9.1×10^{-4} cm/sec with an average of 8.3×10^{-4} cm/sec. The calculated hydraulic conductivity at MW-4D was 3.1×10^{-6} cm/sec.

4.1.2 NAPL Delineation

Measurable NAPL has only been observed in one monitoring well, MW-5, during any of the Site Characterization activities. The NAPL is black and viscous with a strong naphthalene odor. During the 2009 Phase II ESA, approximately 5 feet of DNAPL was identified at the bottom of well MW-5. That well was installed by O'Brien & Gere in 2007, at which time there was no DNAPL observed, however, their well log did note black staining and strong petroleum odor.

As a result of the observed DNAPL during the Phase II ESA, O'Brien and Gere completed limited DNAPL recovery from the well MW-5 between March and June 2010. In March 2010 the DNAPL thickness was 6 ft and a total of approximately one gallon was recovered. By June 2010, the DNAPL thickness was 1.5 ft and approximately 0.19 gallons of DNAPL was removed. During November 2010, the DNAPL was again in excess of 5 feet thick (observed from 7.4 ft-bgs [approximately 3 feet below the water table] to approximately 13 ft-bgs [the bottom of the well and top of bedrock]).

No other measurable NAPL was observed in any of the preexisting wells or newly constructed wells (MW-10, MW-11, MW-12, MW-3D, and MW-4D) during November 2010. However, some very viscous tar like material was observed on the water level probe at MW-8 and on sample tubing when it was retrieved from MW-2 and MW-11.

During completion of the soil borings during the Phase III ESA, NAPL was observed in the fill material from, at, or just below the water table, to refusal at borings B-1 through B-5, B-10, B-13, B14 (subsequently completed as MW-11), and B-15. NAPL was not observed in the weathered bedrock surface material at any of those locations.

During the Phase II and Phase III ESA, AMEC considered NAPL to be present if a separate phase was clearly visible. The NAPL observed in the fill material at those locations mentioned above was in the form of viscous globules that produced a sheen and strong petroleum/naphthalene like odor. It must be noted that during completion of soil borings for the Phase III ESA throughout most of the Site, particularly in the north central portion, solidified tar and tar paper were observed. This material was not considered NAPL because it was not flowable under the field conditions and did not produce an observable separate phase.

Based on data from this and other studies at the site, AMEC made an approximation of the extent of NAPL at the Site. The estimated boundary of NAPL is shown on Figures 5 through 10 (this is an estimate only and the actual extent of NAPL may be more or less). While drilling during the Phase III ESA, AMEC placed some of the material containing NAPL into jars of water to observe the phase separation. Those observations indicate that a certain fraction of the NAPL floats, while another fraction sinks. That observation, along with those that the NAPL was observed throughout the saturated zone at those boring locations identified above, leads AMEC to refer to the material simply as NAPL.

4.2 SOIL SAMPLE ANALYTICAL RESULTS

As shown on Table 1, during site characterization activities relied upon for this RIR, a total of 59 samples of the fill material have been collected and analyzed. A total of 56 of those were collected from the 0 – 15 ft-bgs interval and three were collected from depths greater than 15 ft. The samples were analyzed by TestAmerica, a Pennsylvania Certified Laboratory.

Tables 3, 4, 5 and 6 present a summary of all analytes detected during the ER & R 2006 Access Road study, O'Brien and Gere 2007/2008 Preliminary Soil and Groundwater Investigation, MACTEC 2009 Phase II ESA, and MACTEC 2010/2011 Phase III ESA, respectively. Table 7 presents a summary of all the soil data that exceeds the Act 2 RNUA MSCs as revised January 8, 2011.

From Table 7, each of the following has been detected at least once in a concentration exceeding a relevant Act 2 Residential MSC:

VOC

- 1,3,5 trimethylbenzene

SVOC

- 2-methylnaphthalene
- 4-nitroaniline
- Acenaphthene
- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(ghi)perylene
- Carbazole
- Chrysene
- Dibenz(a,h)anthracene
- Dibenzofuran
- Fluoranthene
- Fluorene
- Indeno(1,2,3-cd)pyrene
- Naphthalene
- Phenanthrene
- Pyrene
- Benzo(k)fluoranthene

Metals

- Arsenic

These analytes are considered Constituents of Concern (COCs) in soil at the Site. No PCB compounds were detected in concentrations exceeding an Act 2 MSC.

The data that exceeds an Act 2 MSC is also shown on Figures 8 and 9. For ease of illustration, Figure 8 presents the exceedance data from samples collected from 0 to 2 ft-bgs and Figure 9 presents exceedance data from samples collected from deeper than 2 ft-bgs. As shown on the

tables and figures, the greatest exceedances have been observed in samples from within the NAPL area.

4.3 GROUNDWATER DATA

Table 8 presents a "hits only" summary of the detected VOC and SVOC groundwater data from samples collected from the groundwater monitoring well network between January 2008 and February 2011 along with the RNUA MSCs as revised January 8, 2011.

Table 9 presents a summary of analytes that exceed the RNUA MSCs. Analytes detected at least once in concentrations exceeding the RNUA MSC include:

VOCs

- Benzene (equals MSC)

SVOCs

- 2-Methylnaphthalene,
- Anthracene,
- Benzo(a)anthracene,
- Benzo(a)pyrene,
- Benzo(b)fluoranthene,
- Benzo(ghi)perylene,
- Benzo(k)fluoranthene,
- Chrysene,
- Dibenzo(a,h)anthracene,
- Fluoranthene,
- Indeno(1,2,3-cd)pyrene,
- .
- Phenanthrene
- Pyrene

Metals

- Aluminum (SMCL)
- Iron (SMCL)

These analytes are considered Groundwater COCs. The exceedances observed during the 2010 Phase III ESA are shown on Figure 10.

4.4 SEDIMENT SAMPLING RESULTS

Five sediment samples were collected during the 2009 Phase II ESA; three from Presque Isle Bay and two from the unnamed stream to the east of the Site (Figure 4). Results are summarized on Table 11. Because the Act 2 MSCs do not contain sediment quality criteria, the results of the sediment samples were not compared to a published standard.

The only VOC detected in the sediment samples was methylene chloride, detected in sample SED-3 at a concentration of 1.7J µg/kg. This detection is likely a laboratory artifact as low detections of methylene chloride are often associated with laboratory contamination.

All of the sediment samples contained PAHs. Sediment samples SED-1 and SED-4 contained the lowest concentrations of PAHs (14-360 µg/kg), likely due to the coarse-grained nature of the material. The samples collected from the unnamed stream (SED-5 and SED-6) contained PAHs ranging from 24 to 1,900 µg/kg. Sample SEDIMENT-3 contained the highest concentrations of PAHs, ranging from 100 to 5,700 µg/kg. PCBs were detected in two of the sediment samples. Sample SED-1 contained 840 µg/kg of Aroclor 1254 and sample SEDIMENT-3 contained 83 µg/kg of Aroclor 1242. A number of metals were also detected in the sediment samples. TOC in the sediment samples ranged from 3,880 mg/kg in SED-6 to 46,300 mg/kg in Sample SED-1.

4.5 EMBANKMENT AND ASBESTOS SAMPLING RESULTS

As stated earlier, solidified tar boils, tar paper, and other types of construction debris can be observed on the steep embankment to the Bay. During the Phase II ESA, a sample was collected of the tar and a sample was collected of the tar paper that was observed.

One sample, labeled EMBANKMENT, was submitted of the tar expressing from the western bank of the Bay for VOCs, SVOCs, PCBs, and metals analyses. The results of this sample are provided in Table 10. The only VOC detected in the sample was methylene chloride, which was detected at a concentration of 0.0013 J mg/kg. This detection is likely a laboratory artifact as low detections of methylene chloride are often associated with laboratory contamination. Concentrations of eleven PAHs were detected in the tar sample ranging from 0.66 mg/kg of indeno(1,2,3-cd)pyrene to 10 mg/kg of benzo(b)fluoranthene. The PAHs that were detected in the sample appear to be the least water soluble of the PAHs and the more soluble PAHs, such as naphthalene and 2-

methylnaphthalene, were not detected. PCB Aroclor 1242 was detected in the sample at 0.085 mg/kg; no other PCBs were detected in the sample. Metals were also detected in the tar sample; however, none of the metals appear to be present in concentrations that would be of concern.

One bulk asbestos sample (ASB-Out-) was collected from a roll of roofing material found protruding from the fill on the west bank of the Site adjoining the Bay. This material consisted of a flat roll of black paper containing white, fibrous materials in the matrix. Several of these rolls were noted at this location. These materials appeared to have been present in the fill and were encased with mature Cottonwood tree roots. Three soil samples containing waste roofing material were collected from soil borings S-11, S-12 and MW-8 at 5-7 ft-bgs for asbestos analysis. These materials consisted of flat roofing material and heavily tar-laden roofing materials. Photographs of this material are included in Appendix C. Sample ASB-Out-1 contained 46.51% chrysotile asbestos by weight. Results from Sample S-11-0507, S-12-05-07 and MW-8-05-7 were non-detect, 0.25%, and 0.32% asbestos by weight, respectively. The asbestos samples were analyzed by the R. J. Lee Group. The results of the asbestos analyses are provided in Appendix D.

4.6 DNAPL AND WASTE CHARACTERIZATION RESULTS

A sample of DNAPL was also collected from well MW-5 during the Phase II ESA and was analyzed for TCL VOCs, TCL SVOCs, and hydrocarbon fingerprinting. The hydrocarbon fingerprinting was performed by TestAmerica in Pensacola, Florida using a modified SW-846 Method 8015. The results were compared to a library of petroleum products in order to identify the product. The results of the VOC and SVOC analyses are provided on Table 10; all of the analytical results are provided in Appendix D. The following provides a summary of the analytical results.

Seven VOCs were detected in the NAPL sample. These included benzene (3.0 mg/kg), toluene (4.2 mg/kg), ethylbenzene (6.4 mg/kg), xylenes (25 mg/kg), isopropylbenzene (1.1 J mg/kg), methylcyclohexane (1.1 J mg/kg), and tetrachloroethene (0.45 J mg/kg). Of the detected VOCs, only benzene was detected in groundwater above the Act 2 RNUA MSC. All of the VOCs detected in the DNAPL were also detected in groundwater except for tetrachloroethene and isopropylbenzene. Several degradation products of tetrachloroethene were present in the O'Brien & Gere groundwater samples. Isopropylbenzene was not analyzed in the O'Brien & Gere samples.

Twenty three SVOCs were detected in the NAPL sample. Seventeen of these were PAHs, which accounted for approximately 6 percent of the product by weight. The remaining detected SVOCs included 1,1'-biphenyl (990 mg/kg), 2,4-methylphenol (38 J mg/kg), 2,4-dinitrotoluene (62 J mg/kg), acetophenone (5.4 J mg/kg), carbazole (1,200 mg/kg), and dibenzofuran (3,200 mg/kg). The results of groundwater analyses indicate that a number of the PAHs, particularly those that are more soluble (e.g. naphthalene, 2-methylnaphthalene, acenaphthalene, acenaphthene, phenanthrene, fluoranthene), are present in groundwater.

Because most petroleum products are a mixture of numerous compounds, the hydrocarbon fingerprint attempts to identify the compounds in the mixture and determine if the mixture generally matches that of any known petroleum formulations (e.g. gasoline, kerosene, etc.). The results of the hydrocarbon fingerprinting indicated that the NAPL is an unknown hydrocarbon mixture in the C12 to C34 range and does not match any of the known petroleum mixtures. It should be noted that the majority of the compounds detected in the SVOC analysis of the NAPL fall into the C12 to C34 range, and that the balance of the compounds present are likely aromatic and aliphatic hydrocarbons that are not included on the target compound list.

During the Phase III ESA, NAPL was observed in saturated zone material from boring B-13. A sample was collected from that location and analyzed for TCL VOCs, TCL SVOCs TAL metals and PCBs. AMEC also collected one sample of saturated zone fill material containing NAPL from boring B-1 and one sample of the DNAPL from MW-5. The soil sample from B-1 was analyzed using the TCLP for the hazardous waste characterization analytes including TCLP VOCs, TCLP SVOCs, TCLP metals, reactive cyanide, reactive sulfide, ignitability, and corrosivity. The DNAPL sample was also submitted for waste characterization analysis (petroleum products cannot be extracted by USEPA SW-846 Method 1311 and are analyzed directly for VOCs, SVOCs and metals by USEPA SW-846 Methods 8260, 8270 and 6010/7471, respectively). Table 8 presents a summary of the waste characterization data along with the respective regulatory criteria. Copies of the final analytical data reports from TestAmerica are provided in Appendix D.

No TCL VOCs or TAL metals exceeded the RNUA Residential MSC in sample B13-1214. Sample B13-1214 contained the following SVOCs that exceed the respective PADEP RNUA MSCs shown on Table 2: 2-Methylnaphthalene, 4-Nitroaniline, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Carbazole, Chrysene,

Dibenz(a,h)anthracene, Dibenzofuran, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, and Pyrene.

As shown on Table 10, none of the concentrations detected in the waste characterization sample B-1-0708 exceeded the TCLP limits. The sample of DNAPL from MW-5 contained 31 mg/kg benzene. The results of a petroleum product sample are not directly comparable to TCLP limits.

5.0 SOURCE AREA IDENTIFICATION, FATE AND TRANSPORT

5.1 SOURCE AREA IDENTIFICATION

Most of the Site is made land comprised of discarded roofing materials (shingles, tar paper, sand, and tar), construction debris (brick and concrete), slag, and silty sand soil that was placed into the Bay between approximately 1900 through the middle of the 20th century. Viscous black NAPL (both DNAPL and LNAPL) exists in the area where tanks containing tar, asphalt and other petroleum products used in the manufacturing process were located (Figure 5). The primary source of NAPL observed during Site characterization activities appears to be historic release of tar and other viscous petroleum product from tanks and piping associated with the former manufacturing activities. The predominance of SVOC COCs in samples from this area supports this conclusion. It is likely that the presence of the NAPL is the result of various releases over the active manufacturing life of the Site from the early 20th century to 2007 when manufacturing stopped.

SVOCs are the primary COCs detected in soils and groundwater in concentrations exceeding the Act 2 RNUA MSCs in the NAPL area. These exceedances are either a direct result of releases from the manufacturing process or, in the case of groundwater, the result of dissolved phase constituents from the NAPL migrating with groundwater.

Metals such as arsenic, iron, and manganese have also been detected in soil and groundwater. Concentrations observed in soil do not appear to be the result of a specific release and may be inherent to the fill material itself. Likewise, the concentrations in groundwater may be more likely the result of reducing conditions in the aquifer due to the presence of NAPL rather than a specific release.

The fill is also a potential source of SVOCs, VOCs, and metals in soil samples collected from outside of the NAPL area. In general, there are fewer SVOCs detected in concentrations exceeding the MSC, the detected concentrations are much lower, and they are detected more sporadically than those in the NAPL area. The source of SVOCs, VOCs and metals detected in groundwater samples down gradient of the NAPL area is likely the NAPL itself, and to a lesser extent, the fill material and reducing conditions in the aquifer.

5.2 FATE AND TRANSPORT

5.2.1 Soil Fill Material

AMEC has evaluated the fate and transport mechanisms associated with the fill material exposed along the shoreline (e.g., tar boils, roofing materials, etc.). The fill material along the shoreline could potentially be exposed to surface water by wave action in the Bay and run off. COCs in surface soils in other parts of the Site could potentially be physically transported by storm water. However, given the very gently sloping topography, the robust vegetative cover, and the topsoil/woodchip cover over the material, overland transport with storm water runoff is not expected to be a significant transport mechanism, except along the steep embankments on the Bay. Similarly, wind is not expected to be a significant transport mechanism.

5.2.2 NAPL

The DNAPL migration is controlled primarily by the bedrock surface, whereas the LNAPL phase is controlled primarily by the direction of groundwater flow. As shown on Figure 5, the bedrock surface in the NAPL area is relatively flat with a slight dip to the northwest. Groundwater flow in the NAPL area is to the north and northeast. Based upon this, the existing groundwater monitoring well network along with soil boring locations are sufficient to reasonably determine extent of the NAPL as shown on the figures.

The rate of NAPL migration has not been determined empirically. However, it is expected that the NAPL plume has stabilized since there are no continuing releases, the age of the NAPL (likely to have accumulated over decades), physical properties (viscous), the relatively flat bedrock surface, and gentle hydraulic gradient. The fact that NAPL was not observed in MW-5 at the time of its construction in 2007 is likely a function of the viscosity of the NAPL rather than NAPL migrating to the well from some distance.

5.2.3 Groundwater Discharge to the Bay

Although it is likely that the NAPL area has stabilized (i.e., will not migrate appreciably beyond its current boundaries), constituents may continue to dissolve into groundwater and migrate toward the Bay. As shown on Figure 10, during the Phase III ESA concentrations of various SVOCs, benzene

and iron were detected in groundwater samples from within the NAPL area that exceed the RNUA MSCs. However, none of the SVOCs or benzene were detected in samples from groundwater monitoring wells MW-3, MW-4, MW-6, and MW-10 in concentrations that exceed the RNUA MSCs. Those wells are referred to here as "perimeter wells" since they are the most down gradient wells closest to the Bay and are used to assess the potential COCs that could impact the Bay via diffuse groundwater discharge. To identify potential groundwater to surface water COCs, AMEC compared the perimeter well data with PADEP surface water criteria discussed below.

Table 12 summarizes the existing groundwater data from the perimeter wells along with the relevant PADEP surface water quality criteria found at 25 PA Code Chapter 93(8)(e) Special Criteria for Great Lakes System; 93(8)(c) Human Health and Aquatic Life Criteria for Toxic Substances, and 93(7) General Water Quality Standards. The reason for this initial data screening is to identify which constituents could be discharging to the Bay in concentrations exceeding the relevant standards. Table 12 presents the samples that exceed one of the published standards. Analytes that were detected at least once in a perimeter monitoring well exceeding their respective Chapter 93 criteria include:

SVOCs

- Acenaphthene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(k)fluoranthene
- Benzo(b)fluoranthene
- bis(2-Ethylhexyl)hthalate
- Chrysene
- Dibenz(a,h)anthracene
- Indeno(1,2,3-cd)pyrene
- Naphthalene
- Phenanthrene

VOCs

- Benzene
- Vinyl chloride

Metals

- Arsenic
- Iron
- Manganese
- Selenium

The VOC and SVOC exceedances were observed primarily in samples from MW-4 and MW-6, and were primarily due to exceedances of the human health criterion calculated using a 1×10^{-6} excess lifetime cancer risk for drinking water. It should be noted that the nearest surface water intake for a public water system is located on the opposite side of Presque Isle, one mile north of the Presque Isle Peninsula. As such, the Chapter 93 human health criteria are not relevant for comparison to the mixed surface water, and the ecological based Chapter 93 criteria prevail.

PADEP's policy is to apply a 10x dilution to concentrations of constituents discharging to Lake Erie to account for dilution in the receiving water body. Table 13 presents the groundwater data relative to aquatic life criteria that were increased by a factor of 10 to account for dilution and where only the ecological criteria apply. The results of that comparison indicate that the following constituents may be discharging to the Bay in concentrations exceeding the surface water quality standards:

SVOCs

- Benzo(a)anthracene
- Naphthalene
- Phenanthrene

The SVOC exceedances occurred in samples from wells MW-4 and MW-6 during the 2008 and 2009 sampling events. No exceedances were observed during the Phase III ESA in 2010 and 2011. Therefore, the observed exceedances appear to represent a small portion of all the groundwater that is discharging from the Site.

In order to more accurately reflect the quality of diffuse groundwater discharge from the Site (along the approximately 900 feet of shoreline), AMEC calculated the geometric mean of all of the data from "perimeter wells" for those constituents identified above as shown on Table 13. The geometric mean is an appropriate statistical representation because the data span several orders of magnitude. The geometric mean concentration for each of the SVOCs listed above is less than the relevant surface water quality criterion presented on Table 13. Based on the data evaluation described above, no groundwater/surface water COCs have been identified.

5.3 ECOLOGICAL EVALUATION

An initial ecological screen was completed, which, in accordance with the Technical Guidance Manual (TGM; PADEP, 2002), is a two step process. The objective of Step 1: Fundamental Components, is to

gather information related to the Site history and distribution of COCs, evaluate COC fate and transport, identify species and habitats of concern, and perform potential exposure pathway analyses. The objective of Step 2- Preliminary Exposure Assessment and Risk Assessment is to determine whether there is a potential for substantial ecological risks, in which case, additional risk analyses must be completed.

AMEC has conducted an environmental review of the project using a Pennsylvania Natural Diversity Inventory (PNDI) search to identify the potential for sensitive habitat and threatened or endangered species on or near the Site. The results of that search are included in Appendix A and indicate that further review of the project is required through the PA Fish and Boat Commission due to potential presence of sensitive species in the bay. In order for the Fish and Boat Commission to make a determination regarding the potential impact of the project, they need to review the specific project scope. AMEC has not submitted the specific scope of the remediation project to the Commission because it is currently being developed. The PNDI search will be completed as part of the storm water management permit application after the Concept Plan has been completed.

Based on the information presented in this RIR, AMEC concludes that the Bay is the only ecological habitat present near the Site. The upland area of the Site is covered in concrete and crushed brick and does not present habitat for the ecological receptors. The pathways by which Site-related constituents could migrate to the Bay are limited to:

- 1) Diffuse discharge of groundwater to the Bay; and
- 2) Storm water runoff from the Site to the Bay.

Pennsylvania has not promulgated sediment standards. Furthermore, it is widely known that the Bay sediments contain SVOCs from the intensive industrialization throughout the area.

As discussed in Section 5.2.3, the groundwater data from monitoring wells closest to the Bay indicate that the groundwater just prior to discharging from the Site to the Bay meets the Pennsylvania Aquatic Life criteria. Therefore, migration of Site-related constituents from Site groundwater to the Bay does not require further evaluation.

As discussed in Section 5.2.1, the only potential source of Site-related constituents in run off are from the material along the steep embankment adjacent to the Bay. Several solidified tar expressions and

tarpaper are exposed in that area and were sampled during the Phase II Assessment. In an attempt to assess potential impacts from the tar to sediments in the Bay, AMEC compared the Embankment sample results with sediment sample data, also collected during the Phase II Assessment (Table 14). The Embankment sample was collected from a solidified tar expression on the west side of the Site, approximately two feet above the water line. This sample is considered to represent a worst case of what could be contained in runoff.

As shown on Table 14, 11 SVOCs were detected in the Embankment (tar) sample and 22 different SVOCs were detected in at least one of the sediment samples. Eleven SVOCs were detected in a sediment sample only, and not in the Embankment sample. Table 14 also presents the sum of all the detected SVOCs in the specific samples. The total of all SVOC concentrations detected in the Embankment sample was 21 mg/kg. Samples SED 1 and SED 4, immediately adjacent to the Site, contained a total SVOC sum of 1.6 mg/kg and 0.5 mg/kg, respectively. The highest total concentration was observed in SEDIMENT 3 (29 mg/kg), which was collected at least 250 feet offshore, north of the Site.

AMEC concludes that the observed sediment data is likely the result primarily of the Bay-wide anthropogenic effects of over 100 years of industrialization and that further ecological risk evaluation is not warranted at this time. AMEC will present the results of the detailed PNDI, including the PA Fish and Boat Commission response in the Risk Assessment Report, and will complete additional ecological risk evaluation at that time if the PNDI results indicate it is warranted.

6.0 SUMMARY AND CONCLUSIONS

The former GAF Building materials Site has been the subject of extensive environmental characterization activities since 2006. As described previously, the work has included extensive soil and groundwater sampling, sediment sampling, and waste characterization sampling.

The data presented in this RIR indicate that:

1. The Site is comprised of “made” land consisting of roofing materials, construction debris and soil fill. Solidified tar boils and roofing materials are present on the embankments that form the shoreline with the Bay.
2. Numerous SVOCs along with arsenic and 1,3,5-trimethylbenzene have been detected in samples of the soil (i.e. fill material) collected throughout the site in concentrations that exceed the respective RNUA MSCs. PCBs were detected sporadically in low concentrations relative to their MSCs. Further delineation of specific exceedances is not likely to be meaningful due to the heterogeneous nature of the fill material.
3. A NAPL plume exists in the central part of the site along its eastern boundary in the area where tar, asphalt and other “heavy” petroleum products were stored and transferred for use in the manufacture of roofing materials. The NAPL is very viscous and contains constituents that float (LNAPL), as well as sink in water (DNAPL). Given the physical characteristics of the NAPL, its age and the hydrogeology of the Site, it appears that the boundaries of the NAPL are likely to be relatively stable.
4. Groundwater from the Site discharges to the Bay. Groundwater data from “perimeter” monitoring wells closest to the Bay has been compared to relevant PADEP surface water quality criteria. Based on the data screening presented here, the discharge of groundwater to the Bay does not result in an exceedance of a relevant surface water criteria.

AMEC concludes that sufficient data exists as presented here to complete the Risk Assessment and Cleanup Plan as required by PADEP. The Risk Assessment and Cleanup Plan will be submitted to PADEP following approval of this RIR and completion of the Final Concept Plan that will describe the nature of future land use at the Site. It is anticipated that remediation will consist of both engineering and institutional controls to eliminate complete exposure pathways. Remedial technologies being considered include, but are not limited to, barrier walls, in-situ stabilization, cover system installation, and other measures to eliminate both the direct contact pathway and migration of NAPL.

TABLES

Table 1
RIR Site Characterization Sample Collection Matrix

Act 2 Remedial Investigation Report - October 2011
 Former GAF Building Materials Site - Erie, PA
 AMEC Project # 3410110844

Soil	Reported In	# of Soil Borings	Identification	# of Samples Analyzed											
				Pet. Short List plus lead	TAL metals	TCL VOCs	TCL SVOCs	PCBs	asbestos	TCLP	Laboratory				
Access Road Sampling, ER&R, 2006		11	SB-1 to SB-12 (these are referred to with "SSB" prefix on RIR figures to differentiate from O&G, 2008 locations)	12											TestAmerica (fka STL)
Preliminary Soil and Groundwater Sampling, O&G, 2008		8	MW-1 to MW-6; SB-7 and SB-8 (Rindfuss Well Drilling)	15	15	15	15	15							TestAmerica
Phase II ESA, MACTEC, 2009		17	MW-7 to MW-9; S-1 to S-14 (Terra Testing); asb-out-1	9	28	28	28	28	28	4					TestAmerica, RJ Lee Group (asbestos)
		5	Test Pits TP-1 to TP-5 (Terra Testing)	2	2	2	2	2	2						
Phase III ESA MACTEC, 2010		21	MW-10 to MW-12; MW-3D & MW-4D; B-1 to B-17 (Terra Testing)	4	4	4	4	4	4						TestAmerica
Total Soil		62	(57 soil borings and 5 test pits)	12	30	49	49	49	49	4					
Sediment		# of Samples													
Phase II ESA, MACTEC, 2009		5	Sed-1, Sediment 3, Sed-4, Sed-5, Sed-6	5	5	5	5	5	5	5					TestAmerica
Shore line Tar Expression															
Phase II ESA, MACTEC, 2009		1	Embankment			1	1	1	1	1					TestAmerica

Prepared By: [Signature]
 Checked By: [Signature]

Table 1
RIR Site Characterization Sample Collection Matrix

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Groundwater	TCL VOCs			TCL SVOCs			Dissolved TAL Metals			PCBs		
	1/2008	7/2009	11/2010	1/2008	7/2009	11/2010	1/2008	7/2009	1/2011		1/2008	7/2009
MW-1	1/2008	7/2009	11/2010	1/2008	7/2009	11/2010	1/2008	7/2009	1/2011	1/2008	7/2009	1/2011
MW-2	1/2008	7/2009	11/2010	1/2008	7/2009	11/2010	1/2008	7/2009	1/2011	1/2008	7/2009	1/2011
MW-3	1/2008	7/2009	11/2010	1/2008	7/2009	11/2010	1/2008	7/2009	1/2011	1/2008	7/2009	1/2011
MW-4	1/2008	7/2009	11/2010	1/2008	7/2009	11/2010	1/2008	7/2009	1/2011	1/2008	7/2009	1/2011
MW-5	1/2008	7/2009	11/2010	1/2008	7/2009	11/2010	1/2008	7/2009	1/2011	1/2008	7/2009	1/2011
MW-6	1/2008	7/2009	11/2010	1/2008	7/2009	11/2010	1/2008	7/2009	1/2011	1/2008	7/2009	1/2011
MW-7	4/2009	7/2009	11/2010	4/2009	7/2009	11/2010	4/2009	7/2009	1/2011	4/2009	7/2009	1/2011
MW-8	4/2009	7/2009	11/2010	4/2009	7/2009	11/2010	4/2009	7/2009	1/2011	4/2009	7/2009	1/2011
MW-9	4/2009	7/2009	11/2010	4/2009	7/2009	11/2010	4/2009	7/2009	1/2011	4/2009	7/2009	1/2011
MW-10	11/2010	1/2011		11/2010	1/2011		11/2010	1/2011		1/2011	2/2011	
MW-11	11/2010	1/2011		11/2010	1/2011		11/2010	1/2011		1/2011	2/2011	
MW-12	11/2010	1/2011		11/2010	1/2011		11/2010	1/2011		1/2011	2/2011	

Non-Aqueous Phase Liquid (NAPL)

MW-5	TCL VOC	TCL SVOC	Hydrocarbon Fingerprint	TCLP List
	4/2009	4/2009	4/2009	11/2010

Prepared By: JAS
Checked By:

Table 2
Groundwater Monitoring Well and Soil Boring Elevation Data

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Location	Ground surface El. (ft-msl)	Top of PVC (ft-msl)	Refusal (Ft-bgs)	Bedrock el. (Ft-msl)	11/10/2010		6/6/2010		8/26/2009		4/10/2009		1/24/2008	
					Depth (ft-toc)	Elev. (ft-msl)	Depth (ft-toc)	Elev. (ft-msl)	Depth (ft-toc)	Elev. (ft-msl)	Depth (ft-toc)	Elev. (ft-msl)	Depth (ft-toc)	Elev. (ft-msl)
MW-1	581.50	581.10	13.5	568	6.36	574.74	5.60	575.50	6.69	574.41	6.22	574.88	6.58	574.52
MW-2	579.84	579.66	13.4	566.44	5.69	573.97	5.31	574.35	5.78	573.88	4.54	575.12	5.63	574.03
MW-3	582.95	582.65	18	564.95	10.8	571.85	9.41	573.24	9.71	572.94	9.55	573.10	10.95	571.70
MW-3D	582.93	582.55	18.2	564.73	10.89	571.66	NI		NI		NI		NI	
MW-4	583.08	582.71	19	564.08	9.96	572.75	9.51	573.20	9.60	573.11	9.22	573.49	10.35	572.36
MW-4D	583.08	582.56	19.8	563.28	10.62	571.94	NI		NI		NI		NI	
MW-5	578.41	578.17	12.7	565.71	4.34	573.83	4.15	574.02	4.67	573.50	4.19	573.98	5.03	573.14
MW-5 DNAPL					7.1	571.07	NM		NM		8	570.17	NM	
MW-6	579.73	579.48	14	565.73	7.41	572.07	NM		6.53	572.95	6.24	573.24	7.5	571.98
MW-7	582.36	582.07	8.2	574.16	1.88	580.19	1.96	580.11	5.68	576.39	1.8	580.27	NI	
MW-8	579.53	579.34	--	<564.53	6.54	572.80	NM		6.13	573.21	5.79	573.55	NI	
MW-9	582.63	582.34	--	<563.63	9.94	572.40	9.31	573.03	9.22	573.12	8.86	573.48	NI	
MW-10	583.05	582.76	26.7	556.35	11	571.76	NI		NI		NI		NI	
MW-11	582.30	581.56	17	565.3	8.81	572.75	NI		NI		NI		NI	
MW-12	577.99	577.58	14.7	563.29	5.09	572.49	NI		NI		NI		NI	

Soil Boring Data Used For x-sections on Figure 7

Location	Ground surface El. (ft-msl)	Refusal (ft-bgs)	Bedrock el. (ft-msl)	Location	Ground surface El. (ft-msl)	Refusal (ft-bgs)	Bedrock el. (ft-msl)
B-1	578.73	13.3	565.43	B-11	588.37	30.5	557.87
B-2	578.46	13.4	565.06	B-12	579.86	15.8	564.06
B-3	578.09	13.3	564.79	B-13	581.47	16.2	565.27
B-4	579.45	14.1	565.35	B-14	582.3	17	565.3
B-5	579.28	13.9	565.38	B-15	580.4	15.5	564.9
B-6	583	16.3	566.7	B-16	578.9	13.5	565.4
B-7	583.4	--	--	B-17	578.2	13.3	564.9
B-8	582.59	16.3	566.29	S-1	578.80	12.4	566.4
B-9	586.2	7.2	579	S-9	582.70	17.2	565.5
B-10	579.9	14.3	565.6	S-12	583.20	21.6	561.6

- Notes:
- 1) Survey Data from Sanford Surveying and Engineering, Erie, PA. "GAF-Base.DWG"
 - 2) -- indicates that bedrock was not encountered.
 - 3) NM indicate no measurement was taken.
 - 4) NI indicates that well was not installed.

Table 4
Soil Data Summary from O'Brien & Gere, 2008

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Regulated Substance	Direct Contact	Res. Non-Use	MW-1_6.5-7	MW-1_8-8.5	MW-2_6-6.5	MW-2_8.5-9	MW-3_7.5-8	MW-3_10-10.5	MW-4_8-8.5	MW-4_12-12.5	MW-5_5.5-6	MW-5_9-9.5	MW-6_8-8.5	MW-6_13-13.5	SB-7_17-17.5	SB-7_27-27.5	SB-8_21.5-22
	Residential MSCs	Aquifer	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/13/2007
	0-15 feet	Soil to GW MSCs	Depth: 6.5-7 ft b	Depth: 8-8.5 ft b	Depth: 6-6.5 ft b	Depth: 8.5-9 ft b	Depth: 7.5-8 ft b	Depth: 10-10.5 ft b	Depth: 8-8.5 ft b	Depth: 12-12.5 ft b	Depth: 5.5-6 ft b	Depth: 9-9.5 ft b	Depth: 8-8.5 ft b	Depth: 13-13.5 ft b	Depth: 17-17.5 ft b	Depth: 27-27.5 ft b	Depth: 21.5-22 ft b
METALS (mg/kg)	(mg/kg)	(mg/kg)	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil
ALUMINUM	190,000	NA	10,700	6,910	2,430	5,690	16,000 J	21,100 J	3,900	2,370	1,450	2,080	17,300	11,800	2,250	6,720	5,140
ANTIMONY	88	27,000	0.071 B, J	0.038 B, J	0.70	0.54	0.023 B	0.0046 B	0.32 J	1.2 J	0.23 B	1	0.049 B, J	0.042 B, J	0.12 B	0.88	0.057 B
ARSENIC	12	29,000	16.2	7.9	9.3	7.9	13	23.6	3.6	6.8	4.4	9.1	10.5	10.5	14.6	11.9	3.5
BARIUM	44,000	190,000	56.7 J	24.7 J	112	114	30.7 J	35.8 J	33.3 J	74.6 J	29.8	27.8	75.8 J	24.1 J	65.6	198	93.6
BERYLLIUM	440	190,000	0.51	0.30	0.57	0.90	0.48	1.2	0.16	0.13	0.21	0.10 B	1.6	0.62	0.17	0.53	0.13
CADMIUM	110	38,000	0.22	0.075 B	0.61	0.16	0.089 B, J	0.17 J	0.39	0.77	0.26	0.55	0.15	0.087 B	0.22	11.8	0.36
CALCIUM	NA	NA	15,200	4,720	11,000	10,300	310 J	1,350 J	23,400	20,000	2,120	15,300	42,900	2,140	21,100	20,800	18,100
CHROMIUM *	660	190,000	17.1 J	11 J	12.1	18.2	20.3 J	21.9 J	42.4 J	17.4 J	59.5	139	15.9 J	18.9 J	9.2	41.5 J	15.2 J
COBALT	66	50,000	14.4	8.4	7.4	8	11.9	21.8	4.8	4.6	4.9	10	14.7	14.7	8.4	8.5	8.7
COPPER	8,100	190,000	30.7 J	18 J	65.5	58.6	23.3 J	29.3 J	22.4 J	41.5 J	22.7	36.9	18.1 J	22.2 J	10.3	202 J	29.4 J
IRON	150,000	NA	28,100	19,900	13,700	29,700	41,500 J	47,900 J	8,900	9,200	11,800	12,300	24,800	21,300	16,700	15,800 J	11,300 J
LEAD	500	190,000	26.5 J	6.1 J	75.6 J, E	36.8 J	22.1 J	26.4 J	63.1 J	146 J	38.8	81.5 J	19 J	12.7 J	12 J	409 J	14.3 J
MAGNESIUM	NA	NA	8,940	3,450	3,060	1,690	6,190 J	7,870 J	10,500	4,090	5,650	19,400	7,960	5,470	3,400	6,700	6,240
MANGANESE	10,000	190,000	410	229	77.2	140	154 J	233 J	190	146	80.6	288	396	223	863	230	487
MERCURY	35	10,000	0.021 B	0.013 B	0.59	0.38	0.0085 B	0.019 B	0.043	0.061	0.73	0.56	0.018 B	0.026 B	0.014 B	1.9	0.019 B
NICKEL	4,400	190,000	33.8	19.2	22.7	23.1	26 J	47.4 J	20.2	23.4	38.8	95.3	30.8	32.1	30.5	46.8 J	28 J
POTASSIUM	NA	NA	2,030	977	339	508	1,980 J	2,410 J	1,020	424	143	264	1,990	1,740	538	858	476
SELENIUM	1,100	26,000	0.66 B	0.39 B	0.62	0.81	0.23 B	0.79	1.1	0.42 B	0.50 B	0.86	1.4	0.50 B	0.55 B	0.78 B	0.14 B
SILVER	1,100	84,000	0.061 B	0.018 B	0.57	0.10 B	0.027 B	0.058 B	0.090 B	0.12 B	0.049 B	0.11 B	0.078 B	0.027 B	0.095 B	21.3	0.10 B
SODIUM	NA	NA	182	76.3	246	188	134 J	175 J	715	354	126	117	268	125	92	217	295
THALLIUM	15	14,000	0.32 J	0.083 B, J	0.18 E	0.21	0.19	0.25	0.13 J, E	0.11 B, J	0.62	3.5	0.13 J	0.14 J	0.12	0.60	0.10 B
VANADIUM	1,500	190,000	22.3	10.7	12.6 J	17 J	16	18.3	15.8 E	9.6	11.3 J	12.2 J	14.4	16.6	12.6 J	16.8	15.7
ZINC	66,000	190,000	81.6 J	44.7 J	136 E	57.4	55.2 J	86 J	160 J, E	112 J	31.2	68.1	61.7 J	59.8 J	33	388 J	38.4 J
PCBs (mg/kg)																	
PCB-1254 (AROCOR)	4.4	67.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44	ND

Table 4
Soil Data Summary from O'Brien & Gere, 2008

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Regulated Substance	Direct Contact	Res. Non-Use	MW-1_6.5-7	MW-1_8-8.5	MW-2_6-6.5	MW-2_8.5-9	MW-3_7.5-8	MW-3_10-10.5	MW-4_8-8.5	MW-4_12-12.5	MW-5_5.5-6	MW-5_9-9.5	MW-6_8-8.5	MW-6_13-13.5	SB-7_17-17.5	SB-7_27-27.5	SB-8_21.5-22
	Residential MSCs	Aquifer	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/13/2007
	0-15 feet	Soil to GW MSCs	Depth: 6.5-7 ft b	Depth: 8-8.5 ft b	Depth: 6-6.5 ft b	Depth: 8.5-9 ft b	Depth: 7.5-8 ft b	Depth: 10-10.5 ft b	Depth: 8-8.5 ft b	Depth: 12-12.5 ft b	Depth: 5.5-6 ft b	Depth: 9-9.5 ft b	Depth: 8-8.5 ft b	Depth: 13-13.5 ft b	Depth: 17-17.5 ft b	Depth: 27-27.5 ft b	Depth: 21.5-22 ft b
SVOCs (mg/kg)			Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil	Grab Soil
ACENAPHTHENE	13,000	4,700	ND	ND	58	260	ND	1.8	5.9	1.5	220	290	1	230	27	ND	15
ACENAPHTHYLENE	13,000	18,000	0.0062 J	ND	34	16	ND	ND	2.5	0.67	69	180	0.12	93	86	ND	8.5
ANTHRACENE	66,000	350	ND	ND	150	130	ND	0.035	8.8	3.6	530	780	0.21	250	180	1.9 J	34
BENZO(A)ANTHRACENE	5.7	960	0.011 J	ND	260	69	ND	ND	14	3.8	820	880	0.15	200	230	2.8 J	29
BENZO(A)PYRENE	0.57	860	0.012 J	ND	230	57	ND	ND	12	2.9	590	670	0.13	150	120	2.2 J	15
BENZO(B)FLUORANTHENE	5.7	170	0.016 J	ND	240	50	ND	ND	13	3.5	630	680	0.16	140	150	ND	26
BENZO(GH)PERYLENE	13,000	180	ND	ND	150	33	ND	ND	4.6	1	350	380	0.046 J	100	63	2.1 J	7.3 J
BENZO(K)FLUORANTHENE	57	610	ND	ND	82	16	ND	ND	5.6	1.5	270	270	0.056 J	62	56	1.2 J	7.2 J
BENZALDEHYDE	NA	NA	0.018 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BIPHENYL, 1, 1-	11,000	3,100	ND	ND	2.2	57	0.014 J	0.0091 J	5.6	0.17 J	130	210	0.10 J	96	5.4	ND	4.1 J
BIS(2-ETHYLHEXYL)PHTHALATE	1,300	6,300	0.13	0.044	ND	ND	ND	ND	0.18 J	0.14 J	ND	ND	0.11 J	ND	ND	ND	ND
CAPROLACTAM	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6 J	ND
CARBAZOLE	900	760	ND	ND	15	63	ND	0.027	5	0.84	440	620	0.24	99	22	ND	14
CHRYSENE	570	230	0.043	ND	240	60	ND	ND	11	3.6	730	770	0.17	160	230	2.1 J	25
DIBENZO(A,H)ANTHRACENE	0.57	270	ND	ND	48	ND	ND	ND	1.3	0.40	130	140	ND	29	32	ND	ND
DIBENZOFURAN	220	12,000	ND	0.0067 J	61	300	0.036	0.025 J	18	1.5	640	900	0.26 J	420	74	ND	27 J
DIMETHYLPHENOL, 2, 4-	4,400	10,000	ND	ND	ND	ND	ND	ND	0.29 J	ND	33	140	ND	1 J	ND	ND	ND
DIBUTYL PHTHALATE, N-	10,000	10,000	ND	ND	ND	ND	0.0067 J	0.014 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORANTHENE	8,800	3,200	ND	ND	480	180	ND	0.069	52	10	1800	1700	0.61	730	500	5.5	57
FLUORENE	8,800	3,800	0.016 J	0.0041 J	85	250	0.013	0.032	19	3.3	850	1200	0.36	440	210	1.9 J	52
INDENO(1,2,3-CD)PYRENE	5.7	190,000	0.0031 J	ND	170	33	ND	ND	5.9	1.2	420	450	0.044 J	110	73	1.9 J	9
METHYLNAPHTHALENE, 2-	880	600	0.013 J	0.021	37	620	0.25	0.075	28	0.69	740	1300	0.15	670	8.2	1.3 J	52
METHYLPHENOL, 2- (CRESOL, O-)	11,000	18,000	ND	ND	ND	ND	ND	ND	ND	ND	65	ND	ND	ND	ND	ND	ND
METHYLPHENOL, 4- (CRESOL, P-)	1,100	18,000	0.0057 J	ND	2.3	ND	ND	ND	0.26 J	0.077 J	11	350	ND	ND	ND	ND	ND
NAPHTHALENE	4,400	7,500	0.016 J	0.0099	40	4100	0.055	0.040	270	3.2	3,200	5,600	0.85	2,300	7	1.7 J	9
PHENANTHRENE	66,000	10,000	0.10	0.027	390	500	0.11	0.062	52	13	2,700	3200	0.66	1300	670	6.7	120
PHENOL	66,000	20,000	ND	ND	ND	ND	ND	ND	ND	ND	3.1	48	ND	ND	ND	ND	ND
PYRENE	6,600	2,200	0.037	0.0065 J	440	150	ND	0.092	26	5.3	1,400	1500	0.37	480	370	4.7	50
VOCs (mg/kg)																	
TRIMETHYLBENZENE, 1, 2, 4-	130	840	ND	ND	0.51	13	0.0086	ND	0.014	ND	16	12	0.0014 J	ND	ND	ND	0.0062
TRIMETHYLBENZENE, 1, 3, 5-	110	2.3	ND	ND	0.46	6.6	0.0017 J	ND	0.0059	ND	8	5.7	ND	ND	ND	ND	0.0018 J
ACETONE	10,000	10,000	ND	ND	ND	ND	0.010 J	ND	0.0067 J	0.16	ND	0.49 J	ND	0.013 J	0.0094 J	ND	ND
BENZENE	57	50	ND	ND	ND	0.24 J	ND	0.0017 J	ND	ND	2.2	2.1	0.0056	0.0034 J	ND	ND	ND
BUTANONE, 2- (METHYL ETHYL KETONE, MEK)	10,000	10,000	ND	ND	ND	ND	ND	ND	ND	ND	0.14 J	0.25 J	ND	ND	ND	ND	ND
CARBON DISULFIDE	10,000	150	ND	ND	0.087 J	ND	0.0033 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYCLOHEXANE	10,000	1,700	ND	ND	ND	0.13 J	ND	ND	0.0015 J	ND	ND	0.26 J	ND	ND	ND	ND	ND
DICHLOROETHANE, 1, 1-	280	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11 J	ND	ND	ND	ND	ND
DICHLOROETHENE, CIS-1, 2-	2,200	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0026 J	0.0024 J	ND	ND	ND
ETHYLBENZENE	10,000	7,000	ND	ND	ND	4	ND	ND	0.0018 J	ND	3.3	2.4	ND	ND	ND	ND	ND
ISOPROPYLBENZENE (CUMENE)	7,700	10,000	ND	ND	0.22 J	4.1	ND	ND	ND	ND	1.2	0.93	ND	ND	ND	ND	ND
METHYL ACETATE	10,000	3,700	ND	ND	0.13 J	ND	ND	ND	ND	ND	0.14 J	0.1 J	ND	ND	ND	ND	ND
METHYLENE CHLORIDE (DICHLOROMETHANE)	950	50	0.0011 J, B	0.00085 J, B	ND	ND	0.0010 J, B	ND	ND	0.0026 J, B	ND	ND	0.00070 J, B	ND	0.0022 J, B	0.0014 J, B	0.0023 J, B
METHYLCYCLOHEXANE	NA	NA	ND	ND	0.15 J	0.58	0.035	0.0026 J	0.0035 J	ND	0.11 J	0.85	0.0074	ND	ND	ND	ND
TOLUENE	10,000	10,000	ND	ND	ND	0.24 J	ND	ND	0.0015 J	ND	9.8	7.4	ND	ND	ND	ND	ND
XYLENES (TOTAL)	1,900	10,000	ND	ND	0.84 J	3.2	ND	ND	0.014 J	ND	28	21	ND	ND	ND	ND	ND

Notes:

- 1) Pennsylvania Act 2 Residential Direct Contact and Soil to Groundwater (Non Use Aquifer) Medium Specific Concentrations (MSCs), January 2011
- 2) Units: ug/kg = micrograms per kilogram; mg/kg = milligrams per kilogram
- 3) "J" indicates that the concentration is estimated; "U" indicates the analyte was not detected in concentrations exceeding the laboratory reporting limit; "B" indicates the result is qualitatively invalid, method blank had similar concentration; "E" indicates matrix interference
- 4) Shaded - indicates concentration of analyte exceeds the MSC

Table 3
Soil Data Summary from ER&R, 2006

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Sample Description	Sample Date	Percent Solids	Benzene (ug/kg)	Ethylbenzene (ug/kg)	Isopropylbenzene (Cumene) (ug/kg)	Naphthalene (ug/kg)	Toluene (ug/kg)	Fluorene (ug/kg)	Phenanthrene (ug/kg)	Anthracene (ug/kg)	Pyrene (ug/kg)	Benzo(a)anthracene (ug/kg)	Chrysene (ug/kg)	Benzo(b)fluoranthene (ug/kg)	Benzo(a)pyrene (ug/kg)	Indeno (1,2,3-cd)pyrene (ug/kg)	Benzo(g,h,i)perylene (ug/kg)	Lead (ug/kg)
EPA SW846 Test Method		MCAWW 160.3 MOD	VOCs 8260B	VOCs 8260B	VOCs 8260B	VOCs 8260B	VOCs 8260B	SVOCs 8270C	SVOCs 8270C	SVOCs 8270C	SVOCs 8270C	SVOCs 8270C	SVOCs 8270C	SVOCs 8270C	SVOCs 8270C	SVOCs 8270C	SVOCs 8270C	SW846 6010B
SB-1 (6"-12")	8/2/06	90.6%	6.1 U	6.1 U	6.1 U	6.1 U	1.2 J	480 J	4,700	1,700 J	5,800	3,900	3,800	4,200	4,000	3,800	4,200	27,100
SB-2 (6"-12")	8/2/06	94.4%	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	62,000 J	350,000	100,000	380,000	190,000	170,000	180,000	170,000	110,000	96,000	18,900
SB-4 (12"-18")	8/2/06	92.0%	6.0 U	6.0 U	6.0 U	6.0 U	2.7 J	2,500 J	29,000	8,300 J	38,000	22,000	21,000	23,000	21,000	16,000 J	15,000 J	53,300
SB-5 (12"-18")	8/2/06	91.0%	5.4 U	5.4 U	5.4 U	5.4 U	1.2 J	10,000 J	100,000	55,000 J	270,000	190,000	170,000	180,000	150,000	100,000	81,000	116,000
SB-6 (20"-24")	8/2/06	90.6%	4.5 U	4.5 U	4.5 U	4.5 U	1.9 J	130 J	1,200 J	340 J	650 J	580 J	760 J	630 J	490 J	220 J	200 J	9,900
SB-7 (18"-24")	8/2/06	87.0%	4.9 U	4.9 U	4.9 U	4.9 U	0.97 J	64 J	970 J	220 J	540 J	410 J	560 J	510 J	340 J	210 J	200 J	19,900
SB-8 (9"-15")	8/2/06	81.1%	7.1 U	7.1 U	7.1 U	7.1 U	7.1 U	4,100 U	570 J	230 J	550 J	480 J	520 J	620 J	480 J	280 J	270 J	22,500
SB-8 (15"-21")	8/2/06	83.1%	5.8 U	5.8 U	5.8 U	5.8 U	1.2 J	1,500 J	14,000	5,200	20,000	16,000	15,000	19,000	16,000	7,700	6,000	14,200
SB-9 (14"-20")	8/2/06	90.9%	5.0 U	5.0 U	5.0 U	5.0 U	1.1 J	550 J	5,000	1,000 J	4,100	2,500 J	2,600 J	3,000 J	2,300 J	1,100 J	880 J	34,600
SB-10 (8"-14")	8/2/06	88.9%	6.1 U	6.1 U	6.1 U	6.1 U	0.82 J	3,700 U	150 J	3,700 U	240 J	190 J	260 J	230 J	190 J	3,700 U	3,700 U	5,600
SB-11 (14"-20")	8/2/06	89.8%	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	1,800 U	250 J	61 J	320 J	190 J	250 J	280 J	200 J	220 J	240 J	15,600
SB-12 (20"-24")	8/2/06	96.1%	4.7 U	4.7 U	4.7 U	28.0	0.94 J	130 J	460 J	180 J	360 J	280 J	290 J	400 J	290 J	3,400 U	130 J	12,300
Clean Fill Concentration Limits for Organics (ug/kg)			130	46,000	780,000	25,000	44,000	3,000,000	10,000,000	350,000	2,200,000	25,000	230,000	25,000	2,500	25,000	180,000	450,000
Regulated Fill Concentration Limits for Organics Nonresidential Properties (ug/kg)												110,000		110,000	11,000	110,000		

Act 2 Residential Non-Use Aquifer Soil MSCs. w/January 8, 2011 Revisions (Added by AMEC) Highlighted Values Indicate an Exceedance.

Res. Direct Contact	57,000	10,000,000	7,700,000	4,400,000	10,000,000	8,800,000	66,000,000	66,000,000	6,600,000	5,700	570,000	5,700	570	5,700	13,000,000	500,000
Res. Soil to GW	50,000	7,000,000	10,000,000	75,000,000	10,000,000	3,800,000	10,000,000	350,000	2,200,000	960,000	230,000	170,000	860,000	190,000,000	180,000	190,000,000

NOTES (From ER&R, 2006):

1. Sampling and preservation procedures followed EPA Method 5035
2. Samples analyzed by Severn Trent Laboratories, Inc. (Pittsburgh, Pennsylvania)
3. VOCs = volatile organic compounds; SVOCs = semivolatile organic compounds
4. Results reported in micrograms per kilogram (ug/kg)
5. J = Estimated result; Result is less than Laboratory Report Limit
6. Shaded values exceed PADEP action levels as listed above
7. Results are reported on a dry weight basis
8. U = Below Laboratory Report Limit
9. The clean fill concentration limits are derived from Table FP-1A & FP-1b (lead) from the Management of Fill Policy (April 24, 2004, Document #258-2182-773)
10. The regulated fill limits are derived from Table 2(b) from the Management of Fill Policy (April 24, 2004, Document #258-2182-773)

Table 5
2009 Phase II ESA Soil Data Summary

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Analyte (mg/kg)	Residential Direct Contact MSC ¹	Residential Non-Use Aquifer Soil to GW MSC	MW-7-0002	MW-8-0103	MW-9-0103	S-10-0103	S-1-0103	S-11-0103	S-12-0103	S-13-005025	S-14-005025	S-2-005045	S-3-0103	S-4-0103	S-5-0103	S-6-0103	S-7-0103	S-8-0002	S-9-0103	S-9-0507
			3/31/2009	3/31/2009	3/30/2009	3/30/2009	4/1/2009	3/30/2009	4/1/2009	4/2/2009	4/2/2009	4/2/2009	4/1/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	4/1/2009
VOCs																				
1,1,1-Trichloroethane	10,000	200	ND	0.24 J	ND	ND	ND	ND	ND	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	280	31	ND	0.2 J	ND	ND	ND	ND	ND	0.0046 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5
Benzene	57	50	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	10,000	150	ND	ND	ND	ND	ND	ND	ND	0.014 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25 J
cis-1,2-Dichloroethene	2,200	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J
Cyclohexane	10,000	1,700	0.15 J	0.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4
Ethylbenzene	10,000	7,000	0.045 J	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57
Methyl acetate	10,000	3,700	ND	0.16 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57
Methylcyclohexane	---	---	0.54	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0014 J	ND	ND	ND	0.0013 J	ND	ND
Methylene chloride	950	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63
Toluene	10,000	10,000	0.13 J	1	ND	ND	ND	ND	ND	0.91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	260	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5
Xylenes (total)	1,900	10,000	0.47 J	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5
SVOCs																				
1,1'-Biphenyl	11,000	3,100	0.1 J	ND	ND	ND	3.6 J	ND	ND	0.12 J	0.034 J	ND	ND	12 J	0.91 J	0.076 J	ND	0.74	8.8	6.5 J
2,4-Dimethylphenol	4,400	10,000	ND	ND	ND	ND	ND	ND	ND	ND	0.018 J	ND	ND	ND	ND	ND	ND	ND	6.1 J	2.4 J
2-Methylnaphthalene	880	600	0.56	2.1 J	ND	0.3 J	9.9	0.035 J	0.3 J	1.2	0.39	0.29 J	0.73 J	41	3.3	0.65	0.47	2.6	49	35
2-Methylphenol	11,000	18,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9 J	ND
4-Methylphenol	1,100	18,000	ND	ND	ND	ND	ND	ND	ND	ND	0.024 J	ND	ND	8.2 J	ND	ND	ND	0.098 J	15	5.4 J
Acenaphthene	13,000	4,700	0.72	7.1	ND	ND	23	ND	ND	ND	0.043 J	ND	0.29 J	22	1.7 J	0.089 J	0.11 J	0.6	8.8	10
Acenaphthylene	13,000	18,000	5.9	3.8	0.071 J	ND	2.1	ND	0.35 J	0.048 J	ND	0.15 J	4	210	34	0.25	1.5	1.1	30	3.9
Acetophenone	10,000	370	ND	ND	ND	ND	ND	ND	ND	0.11 J	0.032 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	66,000	350	4.2	29	0.082 J	ND	100	0.033 J	0.23 J	0.047 J	0.31	0.14 J	2.4	200	36	0.22	0.98	2.5	39	19
Benzo(a)anthracene	5.7	960	21	51	0.18	0.15 J	140	0.093	0.74 J	0.24	0.42	0.32 J	7.5	520	130	1	2.1	4.5	65	20
Benzo(a)pyrene	0.57	860	19	41	0.2	0.15 J	91	0.056 J	0.81 J	0.17	0.2	0.26 J	8.4	520	120	0.85	1.8	4.6	48	13
Benzo(b)fluoranthene	5.7	170	27	66	0.44	0.59	86	0.19	3.5	0.39	0.43	1.5	13	790	200	1.6	3.5	7	50	14
Benzo(ghi)perylene	13,000	180	12	30	0.17	0.17 J	54	0.018 J	0.67 J	0.12	0.12	0.23 J	8.5	370	100	0.72	1.5	4.1	22	6.7
Benzo(k)fluoranthene	57	610	ND	ND	ND	ND	46	ND	0.39 J	0.091	0.075 J	0.21 J	3.7	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl) phthalate	1,300	6,300	ND	ND	0.4 J	ND	ND	ND	ND	ND	0.035 J	ND	ND	ND	ND	ND	ND	0.23 J	0.59	21
Carbazole	900	760	1.2	12	0.026 J	ND	44	ND	ND	0.052 J	0.15	ND	0.48 J	70	4.6	0.086 J	0.23 J	0.59	21	12
Chrysene	570	230	18	49	0.18	0.15 J	120	0.089	0.86	0.35	0.37	0.39 J	7.6	500	130	0.95	1.9	4	51	17
Dibenz(a,h)anthracene	0.57	270	3.9	8.9	ND	ND	21	ND	ND	0.05 J	0.038 J	ND	2.3	120	32	0.2	0.45	1.2	7	2.3
Dibenzofuran	220	12,000	0.47 J	8 J	0.03 J	0.12 J	40	0.018 J	ND	0.36 J	0.17 J	0.11 J	0.54 J	71	5.6 J	0.27 J	0.22 J	2.5	39	29
Diethyl phthalate	10,000	10,000	ND	ND	ND	ND	ND	ND	0.35 J	ND	ND	0.16 J	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	8,800	3,200	38	120	0.31	0.17 J	290	0.15	1.1	0.29	0.64	0.61	9.3	1100	180	1.4	3.6	7.3	160	52
Fluorene	8,800	3,800	0.72	13	ND	ND	41	0.017 J	ND	ND	0.067 J	ND	0.34 J	120	4.4	ND	ND	0.51	56	38
Indeno(1,2,3-cd)pyrene	5.7	190,000	11	29	0.39	0.8	49	0.17	0.55 J	0.082	0.068 J	0.15 J	6.5	360	93	0.87	2	3.6	21	5.7
Naphthalene	4,400	7,500	0.74	2.4 J	0.068 J	0.17 J	12	0.017 J	0.31 J	0.54	0.23	0.23 J	0.98 J	300	6.5	0.45	0.47	14	230	170
Phenanthrene	66,000	10,000	8.9	100	0.17	0.33 J	290	0.12	0.69 J	0.98	1.2	0.54	3.7	710	47	0.95	1.6	8.4	170	83
Phenol	66,000	20,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9 J	ND	ND	ND	0.34	10	2.1
Pyrene	6,600	2,200	28	81	0.28	0.19 J	200	0.14	0.88	0.29	0.59	0.5	6.9	710	150	1.1	2.6	5.3	98	31
PCBs																				
Aroclor 1242	9	4	ND	ND	0.19	ND	ND	ND	0.043 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	4.4	67	ND	ND	0.1 J	ND	ND	0.0054 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	ND
Aroclor 1260	9	150	ND	ND	ND	ND	ND	ND	0.047 J	ND	ND	ND	ND	0.1 J	ND	ND	0.21	ND	0.23	ND

- Notes:
- 1) Pennsylvania Act 2 Residential Direct Contact and Soil to Groundwater (Non-Use Aquifer) Medium Specific Concentrations (MSCs), January 2011
 - 2) Units: ug/kg = micrograms per kilogram; mg/kg = milligrams per kilogram
 - 3) "J" indicates that the concentration is estimated; "J" in metals results indicates analyte detected in blank; "U" indicates the analyte was not detected in concentrations exceeding the laboratory reporting limit; "B" indicates the result is qualitatively invalid, method blank had similar concentration; "E" indicates the sample results exceeded instrument calibration
 - 4) "ND" indicates not detected; "NA" indicates not analyzed
 - 5) Shaded - indicates concentration of analyte exceeds the MSC

Table 7
Soil Data MSC Exceedance Summary

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Preliminary Soil and Groundwater Investigation, O'Brien & Gere 2008																		
Units = mg/kg	Res. Direct Contact MSC ¹	Res. Soil to GW, Non Use Aquifer MSC ¹	Res. Soil to GW, Non Use Aquifer (Saturated Soil) ²	MW-1 6.5-7	MW-1 8-8.5	MW-2 6-6.5	MW-2 8.5-9	MW-3 7.5-8	MW-3 10-10.5	MW-4 8-8.5	MW-4 12-12.5	MW-5 5.5-6	MW-5 9-9.5	MW-6 8-8.5	MW-6 13-13.5	SB-7 17-17.5 ²	SB-7 27-27.5 ²	SB-8 21.5-22 ²
Metals				12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/13/2007
Arsenic	12	29,000	2,900	16.2	7.9	9.3	7.9	13	23.6	3.6	6.8	4.4	9.1	10.5	10.5	14.6	11.9	3.5
VOCs																		
Trimethylbenzene, 1,3,5-	110	2.3	1.3	ND	ND	0.46	6.6	0.0017 J	ND	0.0059	ND	8	5.7	ND	ND	ND	ND	0.0018 J
SVOCs																		
2-Methylnaphthalene	880	600	60	0.013 J	0.021	37	620	0.25	0.075	28	0.69	740	1300	0.15	670	8.2	1.3 J	52
4-Nitroaniline	880	3.3	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	13,000	4,700	470	ND	ND	58	260	ND	1.8	5.9	1.5	220	290	1	230	27	ND	15
Anthracene	66,000	350	35	ND	ND	150	130	ND	0.035	8.8	3.6	530	780	0.21	250	180	1.9 J	34
Benzo(a)anthracene	5.7	960	96	0.011 J	ND	260	69	ND	ND	14	3.8	820	880	0.15	200	230	2.8 J	29
Benzo(a)pyrene	0.57	860	86	0.012 J	ND	230	57	ND	ND	12	2.9	590	670	0.13	150	120	2.2 J	15
Benzo(b)fluoranthene	5.7	170	17	0.016 J	ND	240	50	ND	ND	13	3.5	630	680	0.16	140	150	ND	26
Benzo(ghi)perylene	13,000	180	18	ND	ND	150	33	ND	ND	4.6	1	350	380	0.046 J	100	63	2.1 J	7.3 J
Carbazole	900	760	120	ND	ND	15	63	ND	0.027	5	0.84	440	630	0.24	99	22	ND	14
Chrysene	570	230	23	0.043	ND	240	60	ND	ND	11	3.6	730	770	0.17	160	230	2.1 J	25
Dibenz(a,h)anthracene	0.57	270	27	ND	ND	48	ND	ND	ND	1.3	0.40	130	140	ND	29	32	ND	ND
Dibenzofuran	220	12,000	1,200	ND	0.0067 J	61	300	0.036	0.025 J	18	1.5	640	900	0.26 J	420	74	ND	27 J
Fluoranthene	8,800	3,200	320	ND	ND	480	180	ND	0.069	52	10	1800	1700	0.61	730	500	5.5	57
Fluorene	8,800	3,800	380	0.016 J	0.0041 J	85	250	0.013	0.032	19	3.3	850	1200	0.36	440	210	1.9 J	52
Indeno(1,2,3-cd)pyrene	5.7	190,000	19,000	0.0031 J	ND	170	33	ND	ND	5.9	1.2	420	450	0.044 J	110	73	1.9 J	9
Naphthalene	4,400	7,500	3,000	0.016 J	0.0099	40	4100	0.055	0.040	270	3.2	3,200	5,600	0.85	2,300	7	1.7 J	9
Phenanthrene	66,000	10,000	1,000	0.1	0.027	390	500	0.11	0.062	52	13	2700	3200	0.66	1300	670	6.7	120
Pyrene	6,600	2,200	220	0.037	0.0065 J	440	150	ND	0.092	26	5.3	1400	1500	0.37	480	370	4.7	50
Benzo (k)fluoranthene	57	610	61	ND	ND	82	16	ND	ND	5.6	1.5	270	270	0.056 J	62	56	1.2 J	7.2 J

Notes:

- 1) Pennsylvania Act 2 Residential Direct Contact and Soil to Groundwater (Non Use Aquifer) Medium Specific Concentrations (MSCs), January 2011
- 2) Applies only to samples B-13, SB-7 and SB-8 because they were collected from below the water table. Per 25 PA Code 250.308, value shown is the greater of either 1/10th Generic Soil to Groundwater MSC or 100 X groundwater MSC. Green highlight indicates an exceedance of those values.
- 3) Units: ug/kg = micrograms per kilogram; mg/kg = milligrams per kilogram
- 4) "J" indicates that the concentration is estimated; "U" indicates the analyte was not detected in concentrations exceeding the laboratory reporting limit; "B" indicates the result is qualitatively invalid, method blank had similar concentration; "E" indicates the sample results exceeded instrument calibration
- 5) Blank - indicates that the sample was not analyzed for analyte
- 6) Bold - indicates detection of analyte
- 7) Shaded - indicates concentration of analyte exceeds the MSC

Table 7
Soil Data MSC Exceedance Summary

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Access Road Pre-Excavation Sampling, ER&R 2006															
Units = mg/kg	Res. Direct Contact MSC ¹	Res. Soil to GW, Non Use Aquifer MSC ¹	Res. Soil to GW, Non Use Aquifer (Saturated Soil) ²	SB-1 (6"-12")	SB-2 (6"-12")	SB-4 (12"-18")	SB-5 (12"-18")	SB-6 (20"-24")	SB-7 (18"-24")	SB-8 (9"-15")	SB-8 (15"-2")	SB-9 (14"-20")	SB-10 (8"-14")	SB-11 (14"-20")	SB-12 (20"-24")
Metals				8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006
Arsenic	12	29,000	2,900												
VOCs															
Trimethylbenzene, 1,3,5-	110	2.3	1.3												
SVOCs															
2-Methylnaphthalene	880	600	60												
4-Nitroaniline	880	3.3	3.3												
Acenaphthene	13,000	4,700	470												
Anthracene	66,000	350	35	1.7 J	100	8.3 J	55 J	0.34 J	0.22 J	0.23 J	5.2	1 J	3.7 U	0.061 J	0.18 J
Benzo(a)anthracene	5.7	960	96	3.9	190	22	190	0.58 J	0.41 J	0.48 J	16	2.5 J	0.19 J	0.19 J	0.28 J
Benzo(a)pyrene	0.57	860	86	4	170	21	150	0.49 J	0.34 J	0.48 J	16	2.3 J	0.19 J	0.2 J	0.29 J
Benzo(b)fluoranthene	5.7	170	17	4.2	180	23	180	0.63 J	0.51 J	0.62 J	19	3 J	0.23 J	0.28 J	0.4 J
Benzo(ghi)perylene	13,000	180	18	4.2	96	15 J	81	0.2 J	0.2 J	0.27 J	6	0.88 J	3.7 U	0.24 J	0.13 J
Carbazole	900	760	120												
Chrysene	570	230	23	3.8	170	21	170	0.76 J	0.56 J	0.52 J	15	2.6 J	0.26 J	0.25 J	0.29 J
Dibenz(a,h)anthracene	0.57	270	27												
Dibenzofuran	220	12,000	1,200												
Fluoranthene	8,800	3,200	320												
Fluorene	8,800	3,800	380	0.48 J	62 J	2.5 J	10 J	0.13 J	0.064 J	4.1 U	1.5 J	0.55 J	3.7 U	1.8 U	0.13 J
Indeno(1,2,3-cd)pyrene	5.7	190,000	19,000	3.8	110	16 J	100	0.22 J	0.21 J	0.28 J	7.7	1.1 J	3.7 U	0.22 J	3.4 U
Naphthalene	4,400	7,500	3,000	0.0061 U	0.00463 U	0.006 U	0.0054 U	0.0045 U	0.0049 U	0.0071 U	0.0058 U	0.005 U	0.0061 U	0.0056 U	0.028
Phenanthrene	66,000	10,000	1,000	4.7	350	29	100	1.2 J	0.97 J	0.57 J	14	5	0.15 J	0.25 J	0.46 J
Pyrene	6,600	2,200	220	5.8	380	38	270	0.65 J	0.54 J	0.55 J	20	4.1	0.24 J	0.32 J	0.36 J
Benzo(k)fluoranthene	57	610	61												

Notes:

- 1) Pennsylvania Act 2 Residential Direct Contact and Soil to Groundwater (Non Use Aquifer) Medium Specific Concentrations (MSCs), January 2011
- 2) Applies only to samples B-13, SB-7 and SB-8 because they were collected from below the water table. Per 25 PA Code 250.308, value shown is the greater of either 1/10th Generic Soil to Groundwater MSC or 100 X groundwater MSC. Green highlight indicates an exceedance of those values.
- 3) Units: ug/kg = micrograms per kilogram; mg/kg = milligrams per kilogram
- 4) "J" indicates that the concentration is estimated; "U" indicates the analyte was not detected in concentrations exceeding the laboratory reporting limit; "B" indicates the result is qualitatively invalid, method blank had similar concentration; "E" indicates the sample results exceeded instrument calibration
- 5) Blank - indicates that the sample was not analyzed for analyte
- 6) Bold - indicates detection of analyte
- 7) Shaded - indicates concentration of analyte exceeds the MSC

Table 8
Groundwater Detections 2008 - 2011

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

TCL VOCs

ug/L	Residential, Non-Use Aquifer MSC (ug/L) ¹	MW-1			MW-2			MW-3			MW-4			MW-5		
		1/4/08	7/9/09	11/2/10	1/4/08	7/8/09	11/2/10	1/4/08	7/8/09	11/1/10	1/2/08	7/8/09	11/2/10	1/4/08	7/9/09	11/2/10
Analyte																
1,1-Dichloroethane	310	ND	1 U	1 U	0.5 J	0.81 J	1.5 J	0.61 J	1 U	1 U	ND	1 U	2 U	ND	29	53 J
1,2,4-Trimethylbenzene	1500	ND	NA	NA	23	NA	NA	ND	NA	NA	ND	NA	NA	13	NA	NA
1,3,5-Trimethylbenzene	13	ND	NA	NA	9.1	NA	NA	ND	NA	NA	ND	NA	NA	4.6 J	NA	NA
Acetone	330000	ND	5 U	3 J	ND	3.4 J	10 U	ND	2.5 J	3.1 J	ND	5 U	5.9 J	ND	71 J	500 U
Benzene	500	ND	1 U	1 U	2.5	1	1.4 J	3.2	1 U	1 U	2.1	2.9	0.77 J	170	280	500
Carbon disulfide	1500	ND	1 U	1 U	ND	1 U	1.1 J	ND	1 U	0.4 J	ND	1 U	2 U	ND	25 U	100 U
Chlorobenzene	10000	ND	1 U	1 U	ND	1 U	2 U	ND	1 U	1 U	ND	1 U	2 U	ND	25 U	100 U
Chloroethane	23000	ND	1 U	1 U	ND	1.3	3.2	ND	1 U	1 U	ND	1 U	2 U	ND	72	200
Chloroform	800	ND	1 U	1 U	0.15 J	0.27 J	2 U	ND	1 U	1 U	ND	1 U	2 U	ND	25 U	100 U
Chloromethane	--	ND	1 U	0.35 J	ND	1 U	2 U	ND	1 U	0.55 J	ND	1 U	2 U	ND	25 U	100 U
cis-1,2-Dichloroethene	700	3.1	2.5	2.6	ND	1 U	2 U	1	0.35 J	1 U	ND	1 U	2 U	ND	25 U	100 U
Cyclohexane	13000	ND	1 U	1 U	0.2 J	1 U	2 U	ND	1 U	1 U	ND	1 U	2 U	ND	25 U	100 U
Ethylbenzene	70000	ND	1 U	1 U	15	1.7	2.8	ND	1 U	1 U	3.2	2	2 U	18	61	100
Isopropylbenzene	50000	ND	1 U	1 U	5.2	1.4	0.98 J	ND	1 U	1 U	0.87 J	0.72 J	0.57 J	ND	5.2 J	100 U
Methylcyclohexane	--	ND	1 U	1 U	0.33 J	1 U	2 U	ND	1 U	1 U	ND	1 U	2 U	ND	25 U	100 U
Methylene chloride	500	ND	1 U	1 U	ND	0.2 J	2 U	ND	1 U	1 U	ND	1 U	2 U	5.1 J	25 U	51 J
Toluene	100000	ND	1 U	1 U	1.1	0.4 J	0.5 J	ND	1 U	0.17 J	0.32 J	0.34 J	2 U	80	120	190
trans-1,2-Dichloroethene	1000	0.1 J	0.18 J	1 U	ND	1 U	2 U	0.39 J	0.21 J	1 U	ND	1 U	2 U	ND	25 U	100 U
Vinyl chloride	20	ND	1 U	1 U	ND	1 U	2 U	ND	1 U	1 U	ND	1 U	2 U	ND	25 U	100 U
Xylenes (total)	180000	ND	3 U	3 U	23	2.7 J	3.2 J	ND	3 U	3 U	6.5	5.8	3.8 J	79	230	350
2- Butanone	400000	ND	5 U	5 U	ND	0.9 J	10 U	ND	5 U	5 U	1 J	5 U	10 U	ND	120 U	500 U
Trichloroethene	50	ND	1 U	1 U	ND	1 U	2 U	ND	1 U	1 U	ND	1 U	2 U	ND	25 U	100 U

Notes:

- 1) PADEP Residential Non-Use Aquifer MSC,
- 2) TDS ≤ 2,500, italicized values are Secondary Maximum Contaminant Levels
- 3) Units: ug/L = micrograms per liter
- 4) "J" indicates that the concentration is estimated;
"U" indicates the analyte was not detected in concentrations exceeding the laboratory reporting limit
- 5) Bold - indicates detection of analyte
- 6) Shaded - indicates analyte concentration exceeds MSC
- 7) "ND" indicates analyte not detected
- 8) NA indicates sample not analyzed for analyte
- 9) "--" indicates that no MSC has been promulgated.

Table 8
Groundwater Detections 2008 - 2011

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

TCL SVOCs

ug/L	Residential, Non-Use Aquifer MSC (ug/L) ¹	MW-1			MW-2			MW-3			MW-4			MW-5		
		1/4/08	7/9/09	11/10/10	1/4/08	7/8/09	11/10/10	1/4/08	7/8/09	11/10/10	1/2/08	7/8/09	11/10/10	1/4/08	7/9/09	11/10/10
Analyte																
1,1'-Biphenyl	7200	0.62 J	0.95 U	0.94 U	40 J	0.53 J	1	0.14 J	0.96 U	0.95 U	5.7	0.70 J	0.24 J	35 J	77 J	160
2,4-Dichlorophenol	20000	ND	0.19 U	0.19 U	ND	1.9 U	0.19 U	ND	0.19 U	0.19 U	ND	0.98 U	0.19 U	ND	49 U	0.19 U
2,4-Dimethylphenol	730000	ND	0.95 U	0.94 U	ND	9.5 U	0.95 U	ND	0.96 U	0.95 U	2.5	4.9 U	0.94 U	2700	1700	1500
2-Methylnaphthalene	150	0.31	0.19 U	0.027 J	320	2.7	0.63	0.35	0.19 U	0.1 J	66	4.8	4.4	300	570	910
2-Methylphenol	180000	ND	0.95 U	0.94 U	ND	9.5 U	0.95 U	ND	0.96 U	0.95 U	0.65 J	4.9 U	0.94 U	590	180 J	100
4-Methylphenol	180000	0.095 J	0.95 U	0.94 U	110	9.5 U	0.95 U	ND	0.96 U	0.95 U	9.5	4.9 U	0.94 U	1300	680	50 J
4-Nitroaniline	33	ND	4.8 U	4.7 U	ND	48 U	4.8 U	ND	4.8 U	4.8 U	ND	24 U	4.7 U	ND	1200 U	480 U
Acenaphthene	3800	0.079 J	0.19 U	0.19 U	110	1.6 J	11	4.4	2.7	8.8	15	3	1.5	64	180	340
Acenaphthylene	16000	ND	0.19 U	0.19 U	ND	1.4 J	0.4	0.17 J	0.19 U	0.2	0.39	0.52 J	0.19 U	7 J	22 J	45
Acetophenone	3700	ND	0.95 U	0.94 U	ND	9.5 U	0.11 J	ND	0.96 U	0.95 U	ND	4.9 U	0.94 U	ND	240 U	95 U
Anthracene	66	ND	0.19 U	0.021 J	15 J	1.9	0.89	ND	0.061 J	0.24	3.7	2.5	0.64	ND	170	400
Benzo(a)anthracene	11	ND	0.19 U	0.19 U	4.9 J	5.3	0.19 U	ND	0.19 U	0.19 U	0.5	3.1	0.19 U	3.3 J	150	270
Benzo(a)pyrene	3.8	ND	0.19 U	0.19 U	ND	5.3	0.24	ND	0.19 U	0.19 U	0.26 J	2.2	0.19 U	ND	94	220
Benzo(b)fluoranthene	1.2	ND	0.19 U	0.19 U	ND	10	0.25	ND	0.19 U	0.19 U	0.33 J	4.2	0.19 U	ND	130	300
Benzo(ghi)perylene	0.26	ND	0.19 U	0.19 U	ND	3.8	0.19 U	ND	0.19 U	0.19 U	0.21 J	0.82 J	0.19 U	ND	33 J	97
Benzo(k)fluoranthene	0.55	ND	0.19 U	0.19 U	ND	1.9 U	0.19 U	ND	0.19 U	0.19 U	0.17 J	0.98 U	0.19 U	ND	49 U	19 U
bis(2-Ethylhexyl) phthalate	290	1.6	1	0.94 U	ND	9.5 U	0.95	0.72 J	0.67 J	0.95 U	0.45 J	2.8 J	0.94 U	ND	240 U	95 U
Butyl benzyl phthalate	2700	0.9 J	0.54 J	0.94 U	ND	9.5 U	0.95 U	0.81 J	0.38 J	0.95 U	0.42 J	4.9 U	0.94 U	ND	240 U	95 U
Caprolactam	--	0.99	4.8 U	4.7 U	ND	48 U	4.8 U	0.83 J	0.92 J	4.8 U	ND	24 U	4.7 U	ND	1200 U	480 U
Carbazole	1200	0.073 J	0.19 U	0.19 U	ND	0.90 J	3.3	0.3	0.19 U	0.074 J	7.6	3.4	3.6	100	38 J	260
Chrysene	1.9	ND	0.19 U	0.19 U	ND	3.6	0.19 U	ND	0.19 U	0.19 U	0.48	2.6	0.19 U	1.8 J	100	240
Dibenz(a,h)anthracene	0.6	ND	0.19 U	0.19 U	ND	4.3	0.19 U	ND	0.19 U	0.19 U	0.11 J	1.9	0.19 U	ND	48 J	37
Dibenzofuran	4500	0.15 J	0.029 J	0.94 U	110	2.5 J	3.6	0.36 J	0.023 J	0.95 U	18	3.7 J	1.7	90	270	480
Diethyl phthalate	1100000	ND	0.088 J	0.94 U	ND	9.5 U	0.95 U	ND	0.96 U	0.95 U	ND	4.9 U	0.94 U	ND	240 U	95 U
Di-n-butyl phthalate	400000	0.58 J	0.14 J	0.94 U	ND	9.5 U	0.95 U	0.52 J	0.062 J	0.95 U	0.77 J	4.9 U	0.94 U	ND	240 U	95 U
Di-n-octyl phthalate	3000	ND	0.95 U	0.94 U	ND	9.5 U	0.95 U	ND	0.96 U	0.95 U	ND	4.9 U	0.94 U	ND	240 U	95 U
Fluoranthene	260	ND	0.19 U	0.19 U	18 J	6.7	1.2	0.13 J	0.067 J	0.14 J	2.7	5.9	0.51	10	350	790
Fluorene	1900	0.12 J	0.020 J	0.19 U	91	2	5	0.32	0.19 U	0.19 U	19	4.1	1.9	73	270	510
Indeno(1,2,3-cd)pyrene	62	ND	0.19 U	0.19 U	ND	6	0.19 U	ND	0.19 U	0.19 U	0.23 J	2.8	0.19 U	ND	91	88
Naphthalene	30000	1.2	0.19 U	0.17 J	2200	15	56	0.72	0.19 U	0.46	650	92	51	5000	5600	11000
Phenanthrene	1100	0.24	0.14 J	0.058 J	82	4	0.23	0.53	0.080 J	0.15 J	22	7.1	1.9	73	720	1500
Phenol	200000	ND	0.19 U	0.19 U	ND	1.9 U	0.19 U	ND	0.19 U	0.19 U	0.46	0.98 U	0.19 U	410	41 J	19 U
Pyrene	130	ND	0.19 U	0.19 U	13 J	4.5	0.48	0.086 J	0.070 J	0.08 J	1.8	4.8	0.31	7.7 J	290	540
Benzaldehyde	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4 J	ND	ND	ND	ND

Notes:

- 1) PADEP Residential Non-Use Aquifer MSC, TDS ≤ 2,500, italicized values are Secondary Maximum Contaminant Levels
- 2) Units: ug/L = micrograms per liter
- 3) "J" indicates that the concentration is estimated; "U" indicates the analyte was not detected in concentrations exceeding the laboratory reporting limit
- 4) Bold - indicates detection of analyte
- 5) Shaded - indicates concentration exceeds MSC
- 6) "ND" indicates analyte not detected
- 7) NA indicates sample not analyzed for analyte
- 8) "--" indicates that no MSC has been promulgated.

Table 8
Groundwater Detections 2008 - 2011

Act 2 Remedial Investigation Report - October 2011
Former GAF Building Materials Site - Erie, PA
AMEC Project # 3410110844

Dissolved TAL Metals

Analyte (ug/L)	Residential, Non-Use Aquifer MSC (ug/L) ¹	MW-01			MW-02			MW-03			MW-04			MW-05			MW-06		
		1/2008	7/9/2009	1/13/2011	1/2008	7/8/2009	1/13/2011	1/2008	7/8/2009	1/7/2011	1/2/2008	7/8/2009	1/7/2011	1/2008	7/9/2009	1/13/2011	1/2/2008	7/9/2009	1/7/2011
Aluminum	200	4.1 B J	30 U	121	3.6 B J	5.9 B	14.2 B	5.7 B J	3.7 B	4.3 B	26.3 B J	46.4	27.5 B	5 B J	NA	30 U	7 B J	5.2 B	4.7 B
Antimony	6,000	0.14 B	0.091 B	0.042 B J	1.7 B	0.22 B	0.11 B J	0.15 B	0.25 B	2 U	0.46 B	0.28 B	2 U	0.21 B	NA	0.16 B J	0.14 B	0.12 B	2 U
Arsenic	10,000	0.96 B	7.3	3.2	3.3	7	1 U	0.38 B	1 U	0.73 B	6.7	0.34 B	1.3	6.8	NA	4	ND	0.63 B	1.3
Barium	2,000,000	116	367	162	158	129	184	132	117	195	1080	422	501	269	NA	156	92.9	106	203
Beryllium	4,000	ND	1 U	1 U	ND	1 U	1 U	ND	1 U	1 U	0.081 B	0.045 B	1 U	ND	NA	1 U	ND	1 U	1 U
Cadmium	5,000	ND	1 U	1 U	ND	1 U	1 U	ND	1 U	1 U	ND	1 U	1 U	ND	NA	1 U	ND	1 U	1 U
Calcium	--	88100	259000	338000 J	102000	88800	127000 J	114000	112000	171000 J	360000	258000	298000 J	134000	NA	110000 J	104000	111000	215000 J
Chromium	100,000	4.1 J	2.1	4.5	4.4 J	3.3	4.2	3.9 J	3.1	5.3 J	13.4 J E	13	16.9 J	13 J	NA	5.6	4.1 J	2.8	4.8 J
Cobalt	11,000	5.5	1.6	0.82	3.8	2	0.23 B	4.2	4	0.35 B	9	4.2	1.8	3.1	NA	0.3 B	0.32 B	0.94	0.4 B
Copper	11,000	2.3 J	0.57 B	1.3 B	2.2 J	0.60 B	0.58 B	2.5 J	0.48 B	0.61 B	4.3 J	1 B	1.4 B	3 J	NA	0.28 B	2.8 J	0.44 B	0.79 B
Iron	300	2240 J	4640	11100	2520 J	9050	906	1420 J	1560	749	43100 J	27800	43000	6500 J	NA	6390	154 J	670	525
Lead	5,000	1 J	0.020 B	0.26 B	1 J	0.10 B	0.24 B	2.7 J	0.057 B	0.1 B	1.5 J E	0.25 B	0.078 B	1.2 J	NA	0.1 B	0.79 B J	0.024 B	0.099 B
Magnesium	--	10700	34500	43300	13200	12900	14100	13200	13500	20300	127000	64200	80600	26000	NA	13300	11900	13500	26400
Manganese	300,000	229	781	966	170	201	207	319	309	356 J	775	909	1030 J	428	NA	134	116	251	611 J
Nickel	100,000	1.3	1 U	1.4	7.2	2.2	2.1	2	0.88 B	1.3	3.7	0.37 B	0.75 B	7.9	NA	1.7	0.84 B	0.28 B	1.3
Potassium	--	5940	10600	12400 J	6510	4730	5660 J	7890	4730	8940 J	83500	43000	44300 J	14700	NA	7240 J	5740	5060	8560 J
Selenium	50,000	0.70 B	0.53 B	0.82 B	1 B	5 U	5 U	0.57 B	0.50 B	0.95 B	13.4 E	2.1 B	3.8 B	2 B	NA	5 U	1 B	5 U	0.78 B
Silver	100,000	ND	1 U	1 U	ND	1 U	1 U	ND	1 U	1 U	ND	0.062 B	1 U	ND	NA	1 U	ND	1 U	1 U
Sodium	--	23100 J	120000 J	182000	67300 J	49100 J	31800	66300 J	54900 J	131000	1280000 J	289000 J	347000	241000 J	NA	48800	40300 J	41900 J	84600
Thallium	2,000	ND	1 U	0.025 B	ND	0.019 B J	0.038 B	ND	0.068 B J	0.13 B J	0.11 B	0.11 B J	0.031 B J	ND	NA	0.069 B	0.1 B	1 U	0.15 B J
Vanadium	260,000	0.27 B J	0.39 B	1 U	ND	2.2	1 U	0.68 B J	0.67 B	1 U	1.9 J	1.7	1.7	1.6 J	NA	1 U	ND	1.2	1 U
Zinc	2,000,000	7.2 J	5.1	6.2	7.5 J	1.7 B	2.3 B	5.9 J	2.2 B	2.8 B	7.3 J	2 B	2.7 B	5.4	NA	2.6 B	3.1 B J	5 U	2.5 B
Mercury	2,000	ND	NA	0.2 U	ND	NA	0.2 U	ND	NA	0.2 U	ND	NA	0.2 U	ND	NA	0.2 U	ND	NA	0.2 U

Notes:

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- 2) Units: ug/L = micrograms per liter
- 3) "U" and "ND" denotes parameter not detected at the laboratory; "B" denotes estimated value; "J" denotes detection in laboratory method blank; "E" denotes matrix interference.
- 4) Bold - indicates detection of analyte
- 5) Shaded - indicates concentration exceeds MSC
- 6) NA indicates not analyzed for analyte
- 7) "--" indicates that no MSC has been promulgated.

Table 9
Groundwater MSC Exceedences 2008 - 2011

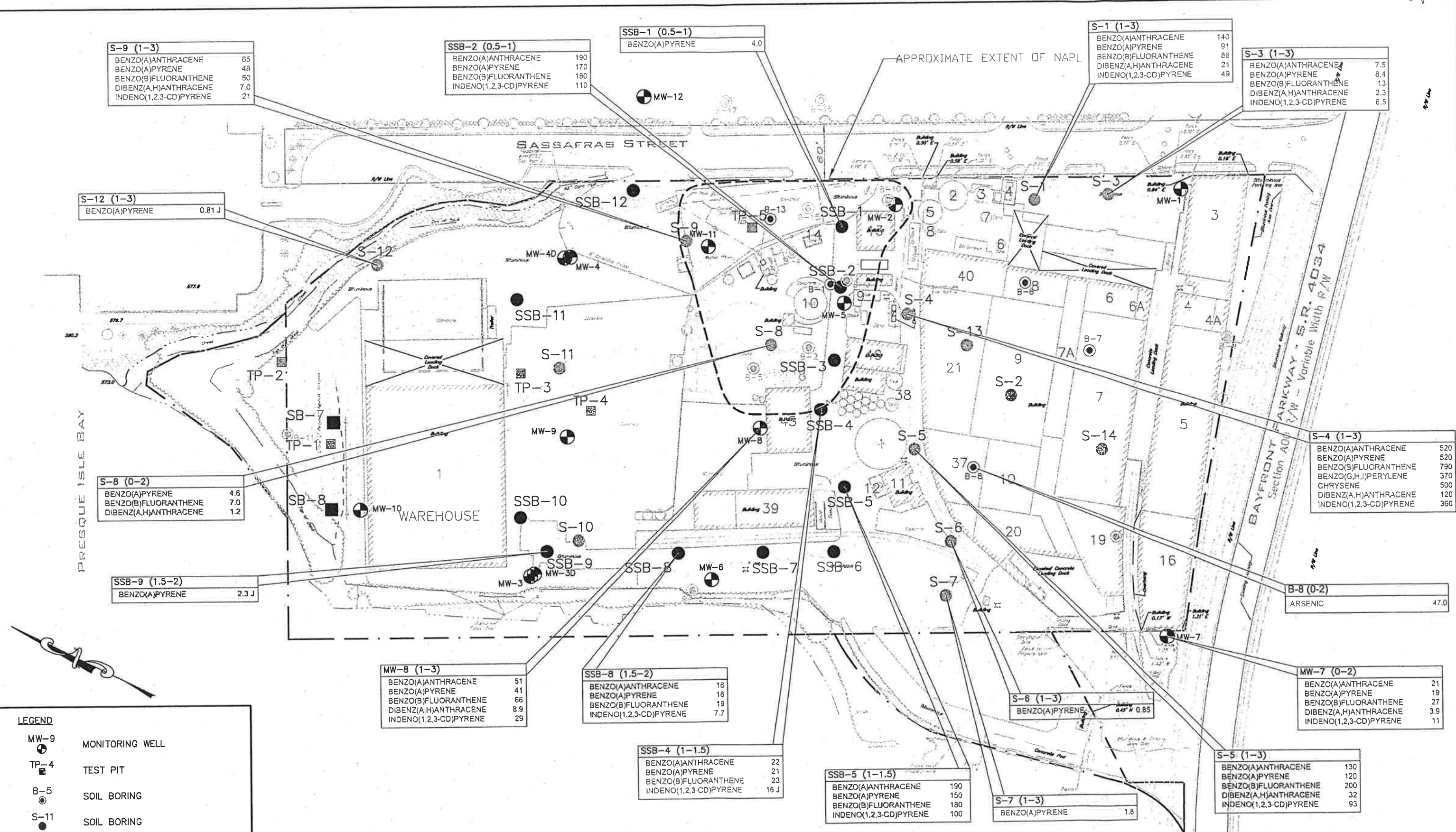
Act 2 Remedial Investigation Report - October 2011
 Former GAF Building Materials Site - Erie, PA
 AMEC Project # 3410110844

Analyte (ug/L)	Residential Non-Use Aquifer MSC (ug/L) ¹	MW-1			MW-2			MW-3		
		1/4/08	7/9/09	11/2/10	1/4/08	7/8/09	11/2/10	1/4/08	7/8/09	11/1/10
VOCs										
Benzene	500	ND	1 U	1 U	2.5	1	1.4 J	3.2	1 U	1 U
SVOCs										
2-Methylnaphthalene	150	0.31	0.19 U	0.027 J	320	2.7	0.63	0.35	0.19 U	0.1 J
Anthracene	66	15 J	0.19 U	0.021 J	ND	1.9	0.89	ND	0.061 J	0.24
Benzo(a)anthracene	11	ND	0.19 U	0.19 U	4.9 J	5.3	0.19 U	ND	0.19 U	0.19 U
Benzo(a)pyrene	3.8	ND	0.19 U	0.19 U	ND	5.3	0.24	ND	0.19 U	0.19 U
Benzo(b)fluoranthene	1.2	ND	0.19 U	0.19 U	ND	10	0.25	ND	0.19 U	0.19 U
Benzo(ghi)perylene	0.26	ND	0.19 U	0.19 U	ND	3.8	0.19 U	ND	0.19 U	0.19 U
Benzo(k)fluoranthene	0.55	ND	0.19 U	0.19 U	ND	1.9 U	0.19 U	ND	0.19 U	0.19 U
Chrysene	1.9	ND	0.19 U	0.19 U	ND	3.6	0.19 U	ND	0.19 U	0.19 U
Dibenz(a,h)anthracene	0.6	ND	0.19 U	0.19 U	ND	4.3	0.19 U	ND	0.19 U	0.19 U
Fluoranthene	260	ND	0.19 U	0.19 U	18 J	6.7	1.2	0.13 J	0.067 J	0.14 J
Indeno(1,2,3-cd)pyrene	62	ND	0.19 U	0.19 U	ND	6	0.19 U	ND	0.19 U	0.19 U
Phenanthrene	1100	0.24	0.14 J	0.058 J	82	4	0.23	0.53	0.080 J	0.15 J
Pyrene	130	ND	0.19 U	0.19 U	13 J	4.5	0.48	0.086 J	0.070 J	0.08 J
Dissolved Metals										
Aluminum	200	4.1 BJ	30 U	121	3.6 BJ	5.9 B	14.2 B	5.7 BJ	3.7 B	4.3 B
Iron	300	2240 J	4640	11100	2520 J	9050	906	1420 J	1560	749

Notes:

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- 2) Units: ug/L = micrograms per liter
- 3) "U" and "ND" denotes parameter not detected at the laboratory; "B" denotes estimated value and; "J" denotes detection in laboratory method blank.
- 4) Bold - indicates detection of analyte
- 5) Shaded - indicates exceedance of MSC
- 6) NA indicate not analyzed for analyte
- 7) "-" indicates no MSC has been promulgated

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S-9 (1-3)

BENZO(A)ANTHRACENE	65
BENZO(A)PYRENE	48
BENZO(B)FLUORANTHENE	50
DIBENZ(A,H)ANTHRACENE	7.0
INDENO(1,2,3-CD)PYRENE	21

SSB-2 (0.5-1)

BENZO(A)ANTHRACENE	190
BENZO(A)PYRENE	170
BENZO(B)FLUORANTHENE	180
INDENO(1,2,3-CD)PYRENE	110

SSB-1 (0.5-1)

BENZO(A)PYRENE	4.0
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S-1 (1-3)

BENZO(A)ANTHRACENE	140
BENZO(A)PYRENE	91
BENZO(B)FLUORANTHENE	86
DIBENZ(A,H)ANTHRACENE	21
INDENO(1,2,3-CD)PYRENE	49

S-3 (1-3)

BENZO(A)ANTHRACENE	7.5
BENZO(A)PYRENE	8.4
BENZO(B)FLUORANTHENE	13
DIBENZ(A,H)ANTHRACENE	2.3
INDENO(1,2,3-CD)PYRENE	6.5

S-12 (1-3)

BENZO(A)PYRENE	0.81 J
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S-8 (0-2)

BENZO(A)PYRENE	4.6
BENZO(B)FLUORANTHENE	7.0
DIBENZ(A,H)ANTHRACENE	1.2

SSB-9 (1.5-2)

BENZO(A)PYRENE	2.3 J
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MW-8 (1-3)

BENZO(A)ANTHRACENE	51
BENZO(A)PYRENE	41
BENZO(B)FLUORANTHENE	66
DIBENZ(A,H)ANTHRACENE	8.9
INDENO(1,2,3-CD)PYRENE	29

SSB-8 (1.5-2)

BENZO(A)ANTHRACENE	16
BENZO(A)PYRENE	16
BENZO(B)FLUORANTHENE	19
INDENO(1,2,3-CD)PYRENE	7.7

SSB-4 (1-1.5)

BENZO(A)ANTHRACENE	22
BENZO(A)PYRENE	21
BENZO(B)FLUORANTHENE	23
INDENO(1,2,3-CD)PYRENE	16 J

SSB-5 (1-1.5)

BENZO(A)ANTHRACENE	190
BENZO(A)PYRENE	150
BENZO(B)FLUORANTHENE	180
INDENO(1,2,3-CD)PYRENE	100

S-7 (1-3)

BENZO(A)PYRENE	1.8
----------------	-----

S-5 (1-3)

BENZO(A)ANTHRACENE	130
BENZO(A)PYRENE	120
BENZO(B)FLUORANTHENE	200
DIBENZ(A,H)ANTHRACENE	32
INDENO(1,2,3-CD)PYRENE	93

S-4 (1-3)

BENZO(A)ANTHRACENE	520
BENZO(A)PYRENE	520
BENZO(B)FLUORANTHENE	790
BENZO(G,H,I)PERYLENE	370
CHRYSENE	500
DIBENZ(A,H)ANTHRACENE	120
INDENO(1,2,3-CD)PYRENE	360

B-8 (0-2)

ARSENIC	47.0
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MW-7 (0-2)

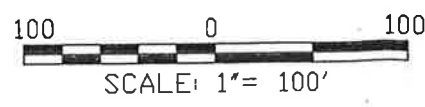
BENZO(A)ANTHRACENE	21
BENZO(A)PYRENE	19
BENZO(B)FLUORANTHENE	27
DIBENZ(A,H)ANTHRACENE	3.9
INDENO(1,2,3-CD)PYRENE	11

- LEGEND**
- MW-9 MONITORING WELL
 - TP-4 TEST PIT
 - B-5 SOIL BORING
 - S-11 SOIL BORING
 - SSB-1 SOIL BORING

Soil Sample Results Exceeding Act 2 Residential Non-Use Aquifer MSC. Results in mg/Kg

TP-5-0506	11	SVOCs
BENZO(A)PYRENE	0.91	VOCs
TRICHOETHENE	12.7	METALS
ARSENIC		

Ref: Sanford Surveying & Engineering, P.C., gaf-base.dwg, revised 11-3-2010.

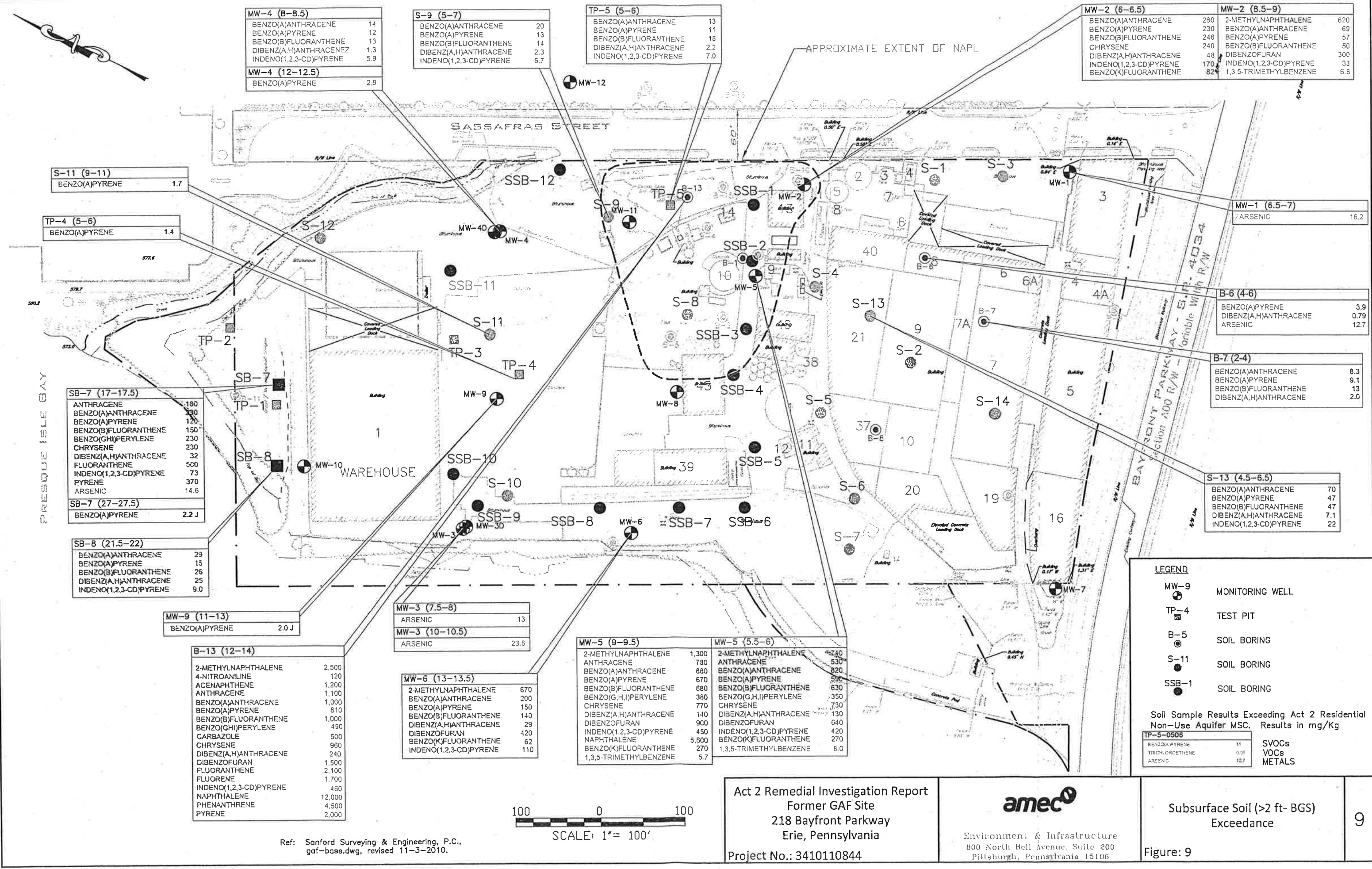


Act 2 Remedial Investigation Report
 Former GAF Site
 218 Bayfront Parkway
 Erie, Pennsylvania
 Project No.: 3410110844

amec
 Environment & Infrastructure
 800 North Bell Avenue, Suite 200
 Pittsburgh, Pennsylvania 15106

Surface Soil (0-2 ft-BGS)
 Exceedance
 Figure: 8

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MW-4 (8-8.5)	
BENZO(A)ANTHRACENE	14
BENZO(A)PYRENE	12
BENZO(B)FLUORANTHENE	13
DIBENZ(A,H)ANTHRACENE	1.3
INDENO(1,2,3-CD)PYRENE	5.9
MW-4 (12-12.5)	
BENZO(A)PYRENE	2.9

S-9 (5-7)	
BENZO(A)ANTHRACENE	20
BENZO(A)PYRENE	13
BENZO(B)FLUORANTHENE	14
DIBENZ(A,H)ANTHRACENE	2.3
INDENO(1,2,3-CD)PYRENE	5.7

TP-5 (5-6)	
BENZO(A)ANTHRACENE	13
BENZO(A)PYRENE	11
BENZO(B)FLUORANTHENE	16
DIBENZ(A,H)ANTHRACENE	2.2
INDENO(1,2,3-CD)PYRENE	7.0

MW-2 (6-6.5)	
BENZO(A)ANTHRACENE	250
BENZO(A)PYRENE	230
BENZO(B)FLUORANTHENE	240
CHRYSENE	240
DIBENZ(A,H)ANTHRACENE	48
INDENO(1,2,3-CD)PYRENE	170
BENZO(K)FLUORANTHENE	82

MW-2 (8.5-9)	
2-METHYLNAPHTHALENE	620
BENZO(A)ANTHRACENE	69
BENZO(A)PYRENE	57
BENZO(B)FLUORANTHENE	500
DIBENZOFURAN	300
INDENO(1,2,3-CD)PYRENE	33
1,3,5-TRIMETHYLBENZENE	6.6

S-11 (9-11)	
BENZO(A)PYRENE	1.7

TP-4 (5-6)	
BENZO(A)PYRENE	1.4

MW-1 (6.5-7)	
ARSENIC	16.2

SB-7 (17-17.5)	
ANTHRACENE	180
BENZO(A)ANTHRACENE	230
BENZO(A)PYRENE	120
BENZO(B)FLUORANTHENE	150
BENZO(G,H,I)PERYLENE	230
CHRYSENE	230
DIBENZ(A,H)ANTHRACENE	32
FLUORANTHENE	500
INDENO(1,2,3-CD)PYRENE	73
PYRENE	370
ARSENIC	14.6
SB-7 (27-27.5)	
BENZO(A)PYRENE	2.2 J

SB-8 (21.5-22)	
BENZO(A)ANTHRACENE	29
BENZO(A)PYRENE	15
BENZO(B)FLUORANTHENE	26
DIBENZ(A,H)ANTHRACENE	25
INDENO(1,2,3-CD)PYRENE	9.0

MW-9 (11-13)	
BENZO(A)PYRENE	2.0 J

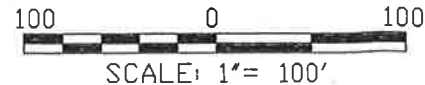
B-13 (12-14)	
2-METHYLNAPHTHALENE	2,500
4-NITROANILINE	120
ACENAPHTHENE	1,200
ANTHRACENE	1,100
BENZO(A)ANTHRACENE	1,000
BENZO(A)PYRENE	810
BENZO(B)FLUORANTHENE	1,000
BENZO(G,H,I)PERYLENE	490
CARBAZOLE	500
CHRYSENE	960
DIBENZ(A,H)ANTHRACENE	240
DIBENZOFURAN	1,500
FLUORANTHENE	2,100
FLUORENE	1,700
INDENO(1,2,3-CD)PYRENE	460
NAPHTHALENE	12,000
PHENANTHRENE	4,500
PYRENE	2,000

MW-3 (7.5-8)	
ARSENIC	13
MW-3 (10-10.5)	
ARSENIC	23.6

MW-6 (13-13.5)	
2-METHYLNAPHTHALENE	670
BENZO(A)ANTHRACENE	200
BENZO(A)PYRENE	150
BENZO(B)FLUORANTHENE	140
DIBENZ(A,H)ANTHRACENE	29
DIBENZOFURAN	420
BENZO(K)FLUORANTHENE	62
INDENO(1,2,3-CD)PYRENE	110

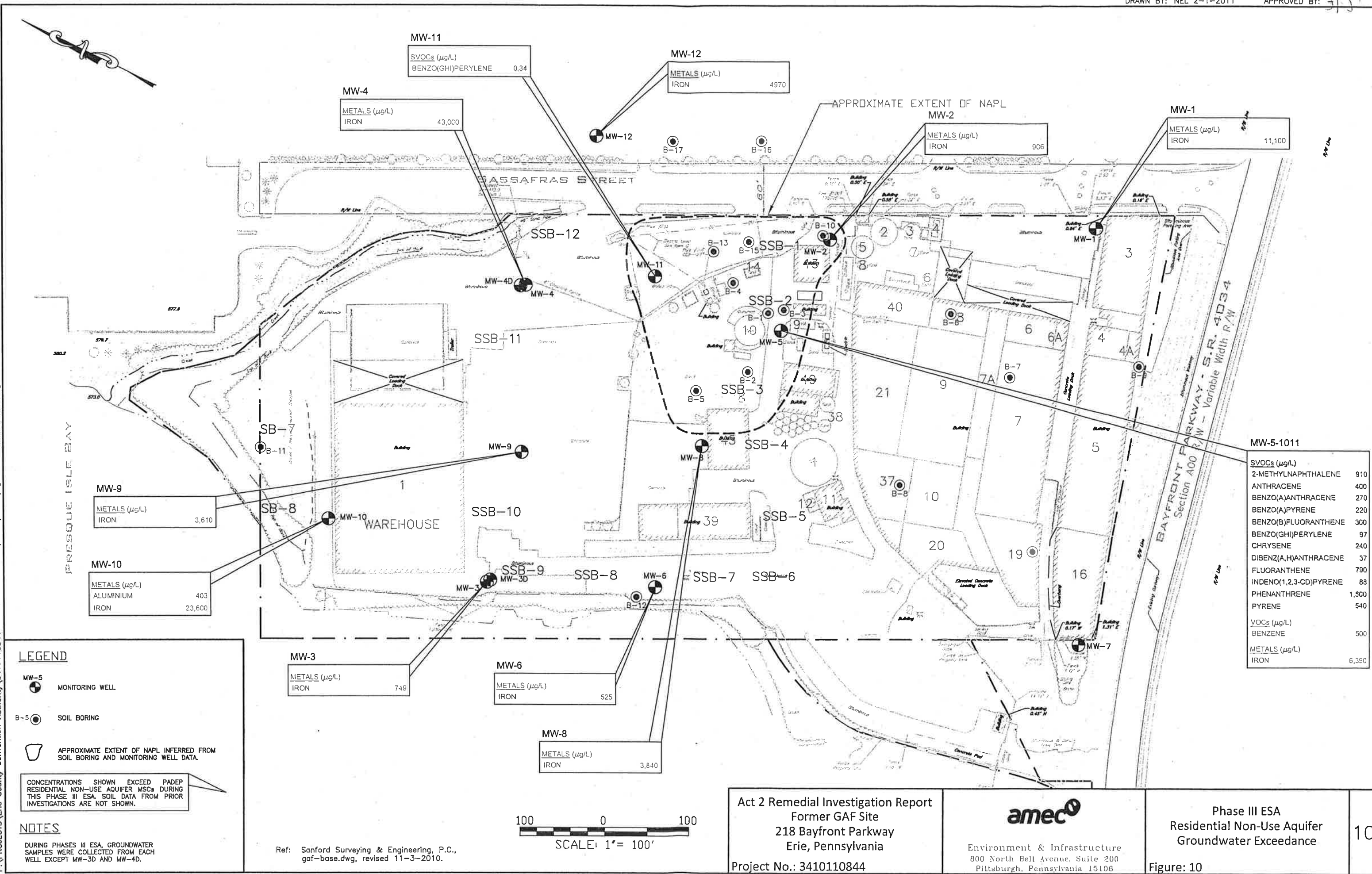
MW-5 (9-9.5)	
2-METHYLNAPHTHALENE	1,300
ANTHRACENE	730
BENZO(A)ANTHRACENE	680
BENZO(A)PYRENE	670
BENZO(B)FLUORANTHENE	680
BENZO(G,H,I)PERYLENE	380
CHRYSENE	770
DIBENZ(A,H)ANTHRACENE	140
DIBENZOFURAN	900
INDENO(1,2,3-CD)PYRENE	450
NAPHTHALENE	5,600
BENZO(K)FLUORANTHENE	270
1,3,5-TRIMETHYLBENZENE	5.7

MW-5 (5.5-6)	
2-METHYLNAPHTHALENE	670
ANTHRACENE	530
BENZO(A)ANTHRACENE	820
BENZO(A)PYRENE	590
BENZO(B)FLUORANTHENE	630
BENZO(G,H,I)PERYLENE	350
CHRYSENE	730
DIBENZ(A,H)ANTHRACENE	130
DIBENZOFURAN	640
INDENO(1,2,3-CD)PYRENE	420
BENZO(K)FLUORANTHENE	270
1,3,5-TRIMETHYLBENZENE	8.0



Ref: Sanford Surveying & Engineering, P.C.,
 gaf-base.dwg, revised 11-3-2010.

P:\PROJECTS\Erie County Convention Authority\3410110844 - GAF Remediation\CADD\FINAL\Fig 10 GW Exceedance.dwg Tue, 04 Oct 2011 - 11:52am nelgattuta



MW-11
SVOCs (µg/L)
BENZO(GH)PERYLENE 0.34

MW-12
METALS (µg/L)
IRON 4970

MW-4
METALS (µg/L)
IRON 43,000

MW-2
METALS (µg/L)
IRON 906

MW-1
METALS (µg/L)
IRON 11,100

MW-9
METALS (µg/L)
IRON 3,610

MW-10
METALS (µg/L)
ALUMINIUM 403
IRON 23,600

MW-3
METALS (µg/L)
IRON 749

MW-6
METALS (µg/L)
IRON 525

MW-8
METALS (µg/L)
IRON 3,840

MW-5-1011

SVOCs (µg/L)	
2-METHYLNAPHTHALENE	910
ANTHRACENE	400
BENZO(A)ANTHRACENE	270
BENZO(A)PYRENE	220
BENZO(B)FLUORANTHENE	300
BENZO(GH)PERYLENE	97
CHRYSENE	240
DIBENZ(A,H)ANTHRACENE	37
FLUORANTHENE	790
INDENO(1,2,3-CD)PYRENE	88
PHENANTHRENE	1,500
PYRENE	540
VOCs (µg/L)	
BENZENE	500
METALS (µg/L)	
IRON	6,390



PROJECT:	GAF	BORING:	B-1
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	1330
CLIENT:	Erie County Convention Center Authority	DATE:	10/21/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Joe Senita	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	578.70	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	13.3 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Asphalt surface cored. 0-4' Air-knife, no obstructions.		
2		bkg			Hollow stem auger to 4 ft-bgs. Dry, black slag and sand, petroleum (naphthalene like) odor.		
3							
4							
5		bkg	2	50	Wet, black shingle fragments & some medium to coarse sand, slight petroleum odor.		
6			1				
7		bkg	2				
8			5	100	Wet, black, coarse sand & gravel, slight sheen. Wet, black, clay-like tar paper & tar.	FILL	
9			7				
10			9		Wet, black, coarse sand & gravel, slight sheen.		
11			10				
12					Hollow stem auger to 10 ft.		
13		bkg	5	25	Wet, same as above w/ petroleum NAPL globules, sheen and odor present to bedrock.		
14			6				
15			3				
16			2				
17		bkg	2	30	Wet, black, coarse, sandy slag.		
18			7				
19			50/0.3		Dry, blue-gray shale, no odor or sheen.	BR	
20					Total depth/refusal at 13.3 ft. below ground surface.		

CREATED BY: CH
CHECKED BY: SCC



MACTEC

PROJECT:	GAF	BORING:	B-2
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	15:00
CLIENT:	Erie County Convention Center Authority	DATE:	10/21/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	578.50	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	13.4 ft. BGS
Easting:		Depth to Water:	Date:
Ref. Elevation:		GW Elevation:	Date:

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Air-knife encountered east-west trending ~ 5 in. metal pipe; moved 2 ft north. Air knife, no obstructions.	FILL	
2		bkg			Hollow stem auger to 4 ft., dry black slag, strong petroleum (naphthalene like) odor.		
3							
4							
5		bkg	1	20	Wet, black/red, silty clay w/some gravel, coarse slag, viscous NAPL globules, sheen and odor to bedrock.		
6			4				
7		bkg	7	90			
8			12				
9		bkg	6		Wet black coarse slag w/some silt & wood.		
10			4				
11		bkg	1	75			
12			1				
13		bkg	2	50			
14			2				
15			2				
16			1				
17		bkg	12	75			
18			20				
19			50/0.4		Dry, blue-gray shale, no odor.		
20					Total depth/refusal 13.4 ft. below ground surface.		

CREATED BY: CEH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-3
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	16:00
CLIENT:	Erie County Convention Center Authority	DATE:	10/21/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condle	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	578.10	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	13.3 ft. BGS
Eastng:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Asphalt surface cored.		
2		bkg			0-4' Air-knife encountered concrete at 1 ft-bgs. Moved 2 ft SE, no obstruction. Hollow stem auger to 4 ft-bgs.		
3					Dry, black slag and sand, petroleum (napthalene like) odor.		
4							
5		bkg	1	25	Wet, black, coarse slag w/ some gravel & wood.	FILL	
6			4		Petroleum NAPL globules, sheen and odor present from 4 ft to bedrock.		
7		bkg	57	80	Wet, red concrete & brick.		
8			15		Wet, black clay-like tar paper & tar.		
9		bkg	8		Wet, black, clayey peat w/roots, brick, sand & wood.		
10			10				
11		bkg	2	25	Wet, black, coarse slag w/some gravel & wood.		
12			3				
13		bkg	1		Wet, black, soft, silty clay w/some peat.		ML
14			4	50	Dry, blue-gray shale.		BR
15			50/0.3		Total depth/refusal at 13.3 ft. below ground surface.		
16							
17							
18							
19							
20							

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-4
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	8:00
CLIENT:	Erie County Convention Center Authority	DATE:	10/22/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:		Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	14.1 ft. BGS
Eastng:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					0-4' Air-knife, no obstructions encountered.		
2		bkg			Hollow stem auger to 4 ft-bgs.		
3					Dry, black slag & sand w/some clay.		
4					Petroleum (naphthalene like) odor.		
5		bkg	1	25	Dry, black, coarse gravel & slag, brick in shoe.		
6			1		Slight petroleum odor.		
7		bkg	12	50	Wet, black, brown & red coarse slag, dry brick from 7 -7.5ft.	FILL	
8			7		Slight petroleum odor & sheen.		
9		bkg	2	90	Wet, black, coarse slag, concrete & brick.		
10			3		Viscous NAPL globules, sheen and odor from 8ft to bedrock.		
11		bkg	1	95	Wet, clay-like tarpaper.		
12			1		Wet, black, coarse gravel & slag w/some tarpaper & brick.		
13		bkg	4	100			
14			4				
15			10	15	Moist, black to blue, gray, silty clay 14-14.05 ft.	ML	
16			12		Dry, blue-gray shale.	BR	
17			3		Total depth/refusal at 14.1 ft. below ground surface.		
18			5				
19			3				
20			4				

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-5
LOCATION:	Erle, Pa	WELL:	
JOB NUMBER:	3410100795	START:	9:10
CLIENT:	Erle County Convention Center Authority	DATE:	10/22/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condle	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	579.30	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	13.9 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft.-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					0-4' Air-knife ,no obstructions encountered.		
2		bkg			Hollow stem auger to 4 ft.-bgs. Dry, black slag & sand. Slight petroleum odor.		
3							
4							
5		bkg	1	50	Moist, black gravel & sand.	FILL	
6			1		Wet, black, blue, & brown, sand & slag, no sheen or petroleum odor.		
7		bkg	4	50			
8			10		Same as above w/some wood and solidified tar. Slight sheen.		
9		bkg	8				
10			8	80			
11		bkg	2	50			
12			2		Same as above w/some tar paper.		
13		bkg	4				
14			2	100	Wet, black, silty clay w/some sand & sheen.		ML
15			2		Dry, brown shale.		BR
16			50/0.4		Total depth/refusal at 13.9 ft. below ground surface.		
17							
18							
19							
20							

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-6
LOCATION:	Erle, Pa	WELL:	
JOB NUMBER:	3410100795	START:	11:00
CLIENT:	Erle County Convention Center Authority	DATE:	10/22/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	583.00	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	16.3 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
					Core concrete 1 ft.		
1		bkg	3	10	Dry, brown, black sand & gravel w/some silt, bricks, & rock fragments, no odor.	FILL	
2			3				
3		bkg	1	10			
4			2				
5	B-6-0406	bkg	2	5	Wet at 9 ft w/ slight sheen.	ML	
6			2				
7		bkg	2	25			
8			1		Wet, black, gravely sand w/brick and solidified tar. Slight musty odor.	ML	
9		bkg	2	10			
10			2		Wet, black, gray, fine sandy silt w/some gravel to 14 ft. Slight musty odor.	ML	
11		bkg	4	50			
12			7				
13		bkg	1	5	Wet, black, gray, fine sandy silt w/some gravel to 14 ft. Slight musty odor.	ML	
14			4				
15		bkg	4	100	Dry, blue-green shale.	BR	
16			6				
17			7				
17			50/0.3	100	Dry, blue-green shale.	BR	
17					Total depth/refusal at 16.3 ft. below ground surface.		
18							
19							
20							

CREATED BY: CH
 CHECKED BY: SCC



PROJECT: GAF
LOCATION: Erie, Pa
JOB NUMBER: 3410100795
CLIENT: Erie County Convention Center Authority
Drilling Method: HSA/spill spoon
Bore Hole Diameter: 6.5"
Auger Size: 4 1/4" I.D.
Sampling Device: 140 lb. spill spoon
Total Depth: 12.0 ft. BGS
Depth to Water:
GW Elevation:

BORING: B-7
WELL:
START: 12:30
DATE: 10/22/2010

Driller: Terra Testing
Field Scientist: Sean Condie
Surveyor: Sanford Surveying
Ground Elevation: 583.40
Northing:
Easting:
Ref. Elevation:

Date:
Date:

WELL DIAGRAM:

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION
					Core 1 ft of concrete.	
1		bkg	4	25	Dry, black/brown, coarse sand & gravel w/ slag & coal fragments.	FILL
2			3			
3	B-7-0204	bkg	2	15		
4			2			
5		bkg	1	15	Molst, brown/black, fine, sandy silty clay.	
6			1			
7		bkg	2	10	Dry, brown/black, coarse sand & gravel w/rock fragments.	
8			2			
9		bkg	1	20		
10			4			
11		bkg	1	20		
12			2		Total depth at 12.0 ft. below ground surface.	
13			2			
14			4			
15						
16						
17						
18						
19						
20						

CREATED BY: CH
CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-8
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	13:30
CLIENT:	Erie County Convention Center Authority	DATE:	10/22/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Conde	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	582.60	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	16.3 ft. BGS
Eastng:		Depth to Water:	Date:
Ref. Elevation:		GW Elevation:	Date:

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1	B-8-0002	bkg	1		Core 0.5 ft of concrete.		
2			1		Dry, black sand and gravel.		
3		bkg	2				
4			3		Dry, brown, well sorted, medium sand.		
5		bkg	4		Dry, black, gravel & coarse sand w/some coal fragments.		
6			12				
7		bkg	13		Trace solid tar.		
8			9				
9		bkg	34		Dry, brown, sandy gravel w/some slag.	FILL	
10			52				
11		bkg	37		Slight sulfur odor.		
12			4		Wet at 10 ft.		
13		bkg	8				
14			15				
15		bkg	7				
16			2				
17		bkg	2				
18			2				
19		bkg	2				
20			2				
			3				
		bkg	3				
			4				
		bkg	3				
			5				
		bkg	5				
			3				
		bkg	4				
			5				
		bkg	8				
			13				
			32				
			50/0.3				
					Wet, gray, silty clay w/wood fragments.	ML	
					Dry, blue-gray shale.	BR	
					Total depth/refusal at 16.3 ft. below ground surface.		

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-9
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	930
CLIENT:	Erie County Convention Center Authority	DATE:	10/25/2010
Drilling Method:	HSA/split spoon		
Bore Hole Diameter:	6.5"		
Auger Size:	4 1/4" I.D.		
Sampling Device:	140 lb. split spoon in unconsolidated and 10 ft. NX Rock core in bedrock		
Total Depth:	17.2 ft. BGS		
Depth to Water:			
GW Elevation:			

Driller: Terra Testing
 Field Scientist: Sean Conde
 Surveyor: Sanford Surveying
 Ground Elevation: 686.20
 Northing:
 Easting:
 Ref. Elevation:

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					0-4' Air-knife, no obstructions encountered. Hollow stem auger to 4 ft. bgs. Dry, brown, fine-medium sand and gravel w/some crushed red brick, no petroleum odor.	FILL	
2		bkg					
3							
4					Dry, brown, sand, some silt, gravel & crushed brick.		
5		bkg	1 1 1 5	5			
6					Refusal at 7.2 ft-bgs. NX rock core from 7.2 to 17.2 ft-bgs. Dry, blue-gray shale, no odor or staining.		
7		bkg	10 30 50/0.2	5			
8					Total Depth at 17.2 ft-bgs per work plan.	BR	
9							
10							
11		bkg					
12							
13							
14							
15							
16							
17							
18							
19							
20							

CREATED BY: CEH
 CHECKED BY: SCC



MACTEC

PROJECT:	GAF	BORING:	B-10
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	12:50
CLIENT:	Erie County Convention Center Authority	DATE:	10/25/2010
Drilling Method:	HSA/split spoon		
Bore Hole Diameter:	6.5"		
Auger Size:	4 1/4" I.D.		
Sampling Device:	140 lb. split spoon		
Total Depth:	14.7 ft. BGS		
Depth to Water:		Date:	
GW Elevation:		Date:	

Driller: Terra Testing
 Field Scientist: Sean Condie
 Surveyor: Sanford Surveying
 Ground Elevation: 579.90
 Northing:
 Easting:
 Ref. Elevation:

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					0-4 ft-bgs Air knife, no obstructions encountered. Hollow stem auger to 4 ft-bgs.		
2		bkg			Dry, black and red, coarse sand, slag, and brick material.		
3							
4							
5		bkg	2	100	Moist, brown/gray, slag, coarse sand, & gravel, tar paper coal fragments & tar, strong petroleum odor.		
6			25				
7		bkg	35		Wet, brown, coarse sand, some gravel, & silt, no odor.		
8			21	90	Wet, black, silty clay w/tar, strong odor and sheen.	FILL	
9		bkg	11		Wet, black, coarse sand and gravel w/some clay. NAPL globules, sheen & strong odor.		
10			18				
11		bkg	9		Wet, black/brown, coarse sand, gravel, slag, & glass, wood in shoe, NAPL globules, sheen & strong odor.		
12			6	50			
13			4		Drive shelly tube from 13 to 14.3 ft.		
14		bkg	2		Wet, black, coarse sand & gravel, some silt.	SP	
15			4	30	Dry, blue-gray, weathered shale, no odor.	BR	
16			4		Total depth/refusal at 14.7 ft. below ground surface.		
17			3		(Note - This boring was intended to extend into bedrock with NX core. Coring was not done due to observed presence of NAPL.)		
18			2				
19			2				
20							

CREATED BY: CEH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-11
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	8:00
CLIENT:	Erie County Convention Center Authority	DATE:	10/28/2010
Drilling Method:	HSA/split spoon		
Bore Hole Diameter:	6.5"		
Auger Size:	4 1/4" I.D.		
Sampling Device:	140 lb. split spoon & NX Rock Core		
Total Depth:	40.5 ft. BGS		
Depth to Water:	Date:		
GW Elevation:	Date:		

Driller: Terra Testling
 Field Scientist: Sean Condie
 Surveyor: Sanford Surveying
 Ground Elevation: 588.40
 Northing:
 Easting:
 Ref. Elevation:

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					0-4' Air-knife, no obstructions. Hollow stem auger to 4 ft-bgs. Dry, brown to black sand, silt, & gravel.	FILL	
2		bkg					
3							
4							
5		bkg	3 6 12 18	100	Dry, brown, sand & silt, some gravel. Dry, black, shingles w/red, blue, green, & black sand.		
6							
7		bkg	4 4 5 6	60	Wet at 6 ft-bgs., same as above w/some slag. Dry from 6.2 ft to 8 ft-bgs., slight petroleum odor.		
8							
9		bkg	3 4 5 9	50	Wet, brown, medium sand w/some slag. Petroleum odor in sand.		
10							
11		bkg	2 2 2	60	Dry, brown, medium sand w/ shell fragments. No petroleum odor or sheen.		
12							
13		bkg	2 1 7	65	Moist to dry, multi-colored sand and shingles. Petroleum odor.		
14							
15		bkg	1 5 7 20	55	Dry, brown, sand with crushed brick. Slight petroleum odor.		
16							
17		bkg	7 10 13 9	100	Dry, black, brittle tar.		
18							
19		bkg	10 8 6 8	100	Dry, white, slag with shingles & brittle tar, slight odor. Wet, multi-colored sand & shingles, tar w/some shell fragments, slight sheen.		
20							

CREATED BY: CEH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-11
LOCATION:	Erle, Pa	WELL:	
JOB NUMBER:	3410100795	START:	8:00
CLIENT:	Erle County Convention Center Authority	DATE:	10/28/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:		Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	40.5 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft.-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
21		bkg	6 4	50	Wet, black w/white lithics, coarse sand w/shell fragments, brittle tar, and shingles, slight petroleum odor & sheen.	FILL	
22			5 4				
23		bkg	6 5	100	Same as above w/finer multi-colored sand towards 24 ft, no petroleum odor.	FILL	
24			9 9				
25		bkg	4 6	100	Same as above.	FILL	
26			8 13				
27		bkg	3 4	100	Wet, brown/black, coarse sand w/shell fragments, no shingles or petroleum odor.	SP	
28			6 6				
29		bkg	1 1	100			
30			2 2				
31			50/0.4		Attempt shelly tube, refusal at 30.1 ft., split spoon to 30.5 ft. NX rock core from 30.5 ft to 40.5 ft.		
32					Dark gray shale interbedded with silt stone. No petroleum odor or staining.	BR	
33							
34		bkg					
35							
36							
37							
38							
39							
40					Total Depth of Boring 40.5 ft.		

CREATED BY: CEH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-12
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	13:50
CLIENT:	Erie County Convention Center Authority	DATE:	10/28/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Conde	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:		Sampling Device:	140 lb. split spoon and NX rock core.
Northing:		Total Depth:	25.8 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Air knife to 3 ft., encountered ~5 in. PVC pipe north south trending; moved ~10 ft west, jack hammer 2 ft. asphalt over concrete; air knife to 4 ft., no obstructions. Hollow stem auger to 4 ft. Dry, brown, silty gravel.		
2		bkg					
3							
4							
5		bkg	1	60	Dry, brown, coarse sand some gravel.		
6			1				
7		bkg	3	75	Wet, brown, coarse sand and gravel, wood in shoe. No petroleum odor.	FILL	
8			4				
9		bkg	1	25	Wet, brown, medium sand & silt.		
10			6				
11		bkg	2	15	Wet, green and gray, weathered shale.		
12			2				
13		bkg	12	100	Wet, brown, medium sand and clay, wood in shoe.		
14			21				
15		bkg	15	60	Moist to dry, black/gray sand w/silt, petroleum odor, slight sheen.		
16			13				
17			6		Dry, gray shale, no odor, refusal at 15.8 ft. bgs.		
18			8				
19			23		NX rock core from 15.8 ft to 25.8 ft-bgs.	BR	
20			50/0.3				

CREATED BY: CEH
 CHECKED BY: SCC



MACTEC

PROJECT:	GAF	BORING:	B-12
LOCATION:	Erle, Pa	WELL:	
JOB NUMBER:	3410100795	START:	13:50
CLIENT:	Erle County Convention Center Authority	DATE:	10/28/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Conde	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:		Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	25.8 ft. BGS
Easting:		Depth to Water:	Date:
Ref. Elevation:		GW Elevation:	Date:

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
21					Gray shale interbedded with siltstone.		
22							
23		bkg			Trace sheen, staining, and petroleum odor.	BR	
24							
25							
26							
27					Total depth 25.8 ft. below ground surface.		
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

CREATED BY: CEH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-13
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	8:00
CLIENT:	Erie County Convention Center Authority	DATE:	10/29/2010
Driller:	Terra Testing	Drilling Method:	HSA/spill spoon
Field Scientist:	Sean Conde	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	581.50	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	16.2 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Core ~ 1 ft of concrete.		
2		bkg			Air knife to 4 ft., no obstructions. Hollow stem auger to 4 ft. Dry, black gravel & sand, mild petroleum odor.		
3							
4							
5		bkg	1	55	Dry, black/brown gravel & medium sand. No odor. Trace water at 5 ft.		
6			1				
7		bkg	4	40	Dry, cobbles, slag & coal fragments, no odor.	FILL	
8			6				
9		bkg	2	60	Moist, brown sand & gravel w/slag, no odor.		
10			4		Wet, black/brown slag, sand & gravel w/solid tar. Sheen w/strong petroleum odor.		
11		bkg	12	80			
12			16				
13	B-13-1214	bkg	4	75	Same as above w/some crushed brick.		
14			3				
15		bkg	2	70	Moist, gray, medium, sandy silt w/sheen & odor.	ML	
16			3				
17			4	100	Moist, blue-gray, weathered shale.	BR	
18			50/0.2		Total depth/refusal at 16.2 ft. below ground surface.		
19							
20							

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-14
LOCATION:	Erie, Pa	WELL:	MW-11
JOB NUMBER:	3410100795	START:	9:30
CLIENT:	Erie County Convention Center Authority	DATE:	10/29/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	582.30	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	17.0 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:	581.56	GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Core ~ 1 ft concrete.		Steel flush mount. Conc. to 2 ft.
2		bkg			Alr knife to 4 ft., no obstructions, dry, black sand and gravel. Hollow stem auger to 4 ft. Dry, black sand & gravel.		2 In. ID Sch. 40 PVC casing to 6.5 ft-bgs.
3							
4							
5		bkg	2	70	Dry, brown silt w/blue, green, and red, medium sand. Some shingles & sold tar, petroleum odor.		Bentonite to 4.5 ft-bgs.
6			1				
7		bkg	1	40	Same as above w/some crushed brick & tar paper.		Sand 5.5 ft to 17 ft.
8			2				
9		bkg	1	45			2 In. ID 0.02 In. slot screen to 16.5 ft-bgs.
10			1		Wet, same as above w/viscous (NAPL) tar globules & sheen.	FILL	
11		bkg	1	60	Wet, brown, coarse sand w/some gravel.		
12			2				
13		bkg	4	100			
14			2				
15		bkg	3	90			
16			2				
17		bkg	2	100	Wet, gray, sandy silt, sheen & odor. Moist, blue-gray shale.	ML BR	
18			50/0.5		Total depth/refusal at 17.0 ft. below ground surface.		
19							
20							

CREATED BY: CH
CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-15
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	12:50
CLIENT:	Erie County Convention Center Authority	DATE:	10/29/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	580.40	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	15.5 ft. BGS
Eastng:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Core ~ 1 ft concrete.	FILL	
2		bkg			Air knife to 4 ft., no obstructions, dry, black sand and gravel. Split spoon sample to 4 ft. Dry, black sand & gravel w/some slag.		
3							
4							
5		bkg	1	20	Wet, black sand & gravel w/some slag & brick. Slight petroleum odor.		
6			1				
7		bkg	3				
8			1	50	Solidified tar w/sheen & petroleum odor.		
9			2				
10		bkg	5				
11			17				
12		bkg	9	50	Wet, black, coarse sand, silt & gravel w/crushed brick and tar. Viscous NAPL globules and petroleum odor.		
13			6				
14		bkg	7	70	Wet, black, sandy silt with some shell fragments. Sheen and petroleum odor.		
15			2				
16		bkg	2				
17			2				
18			2				
19		bkg	4	100	Wet, brown, weathered shale, no odor or staining.	BR	
20			9		Total depth/refusal at 15.5 ft. below ground surface.		
			50/0.5				

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-16
LOCATION:	Erle, Pa	WELL:	
JOB NUMBER:	3410100795	START:	1040
CLIENT:	Erie County Convention Center Authority	DATE:	11/9/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	578.90	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	13.7 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Cut asphalt ~ 0.5 ft.	FILL	
2		bkg			Air knife to 3.5 ft, blue & silver marking tape indicating gas line, move location 7 ft east. Air knife to 4 ft., no obstructions.		
3					Hollow stem auger to 4 ft.		
4					Dry, brown, sand, gravel & pebbles.		
5		bkg	4	100	Dry, brown, sand, gravel & concrete pebbles.		
6			2		Wet at 5 ft.		
7		bkg	1	100			
8			1				
9		bkg	2				
10			1		Dry, brown, sand, gravel & concrete pebbles w/ some slag.		
11		bkg	2				
12			0.5	20			
13		bkg	0.5				
14			1				
15			2				
16		bkg	21	30	Wet, wood, hollow stem auger to 12 ft.		
17			50/0.2				
18		bkg	5		Wet, brown, silty sand & gravel w/some wood.		
19			7				
20			50/0.5		Wet, green/gray, weathered shale.		
					Total depth/refusal at 13.7 ft. below ground surface.	BR	

CREATED BY: CH
 CHECKED BY: SCC
 PAGE: 1 of 1



PROJECT:	GAF	BORING:	B-17
LOCATION:	Erie, Pa	WELL:	
JOB NUMBER:	3410100795	START:	0900
CLIENT:	Erie County Convention Center Authority	DATE:	11/9/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5'
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	578.20	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	13.3 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:		GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Cut Asphalt ~ 0.5 ft.		
2		bkg			Air knife to 4ft, no obstructions.		
3					Hollow stem auger to 4 ft.		
4					Dry, brown, sand, gravel & pebbles.		
5		bkg	2	40	Dry, brown sand w/some gravel & concrete fragments.	FILL	
6			1				
7			1				
8		bkg	2	100	Wet, black sand & gravel w/some clay & concrete fragments.		
9			3				
10			2				
11		bkg	11	30	Wet, black gravel w/some sand, silt & concrete.		
12			3				
13		bkg	8	100	Wet, same as above w/wood.		
14			5				
15			51		Wet silt & sand.	ML	
16			17	100			
17			50/0.3		Moist, blue-gray shale.	BR	
18					Total depth/refusal at 13.3 ft. below ground surface.		
19							
20							

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	MW-3D
LOCATION:	Erie, Pa	WELL:	MW-3D
JOB NUMBER:	3410100795	START:	13:40
CLIENT:	Erie County Convention Center Authority	DATE:	10/26/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Conde	Bore Hole Diameter:	6.5 in. & 3.75 in.
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	682.93	Sampling Device:	140 lb. split spoon & 3.75 NX Rock core
Northing:		Total Depth:	28.2 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:	582.55	GW Elevation:	

DEPTH (ft.-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Core ~ 1 ft of concrete.		Steel flush mount. Cement 0.0-2.0ft.
2		bkg			Air knife to 4 ft., no obstructions. Hollow stem auger to 4 ft. Dry, brown & black sand, gravel & cobbles.		2 in. ID sch. 40 PVC casing to 23.2 ft-bgs.
3							
4							
5		bkg	2	40	Dry, brown/black sand, silt & gravel w/ cobble sized slag.		
6			4				
7		bkg	6				
8			9		Wet, reddish-brown silt & clay w/iron staining.		
9			8				
10		bkg	7	40	Dry to moist, brown silty clay.	FILL	
11			7				
12		bkg	5	60			
13			4				
14		bkg	6	80	Wet, brown/black silt w/roots, wood & shells.		
15			6				
16		bkg	7	60			
17			12				
18		bkg	16	100			
19			16				
20		bkg	3		Wet, gray silt & sand w/weathered shale.	ML	
			2		Refusal at 18.2 ft-below ground surface.		
			5		4 in. NX rock core from 18.2 to 28.2 ft-below ground surface.	BR	
			6				

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	MW-3D
LOCATION:	Erie, Pa	WELL:	MW-3D
JOB NUMBER:	3410100795	START:	13:40
CLIENT:	Erie County Convention Center Authority	DATE:	10/26/2010

Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.6"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	582.93	Sampling Device:	140 lb. split spoon & 3.75 NX Rock core
Northing:		Total Depth:	28.2 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:	582.55	GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:		
21					4 in. NX rock core to 28.2 ft. below ground surface.		<p>Bentonite chips 2.0' to 22.2 ft. 2in. ID Sch. 40. PVC casing. Sand Pack 22.2 - 28.2ft. 2 in. ID mach. slot 0.02 in. PVC screen from 23.2 - 28.2 ft-bgs.</p>		
22				Gray siltstone Interbedded with shale.	BR				
23									
24		bkg							
25									
26									
27									
28									
29						Boring complete at 28.2 ft. below ground surface.			
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

CREATED BY: CH
CHECKED BY: SCC



PROJECT:	GAF	BORING:	MW-4D
LOCATION:	Erie, Pa	WELL:	MW-4D
JOB NUMBER:	3410100795	START:	14:50
CLIENT:	Erie County Convention Center Authority	DATE:	10/25/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon & NX core
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	583.08	Sampling Device:	140 lb. split spoon & 3.75 NX Rock core.
Northing:		Total Depth:	29.8 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:	582.56	GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:	
1					Core ~ 6 in. asphalt over concrete. Air knife to 4 ft., no obstructions encountered.	FILL	Steel flush mount. Cement 0.0-1.0 ft.	
2		bkg			Hollow stem auger to 4 ft. Dry, black/brown, medium to coarse sand & gravel.		Bentonite chips from 1 to 23.8 ft.	
3								
4								
5		bkg	4	60	Dry, brown silt w/blue, red & green sand. Solidified tar, shingles, tar paper, & slag from 5.0 to 6.5 ft.		2 in. ID sch. 40 PVC casing to 24.8 ft.	
6			4					
7		bkg	10	100	Dry, black tar paper, shingles w/blue, red, & green sand. Petroleum odor.			
8			12					
9		bkg	14	100	Wet, brown silt w/multi-colored sand, slight sheen. Wet, black tar paper, shingles, & multi-colored sand. Slight petroleum odor & sheen.			
10			12					
11		bkg	10	100				
12			12					
13		bkg	3	50				
14			1					
15			4					
16		bkg	6	100	Wet, black, silty sand w/solidified tar at 15 ft. No odor.			
17	Shelby Tube MW-4D #1		7					
18			9		Wet, black to gray water w/slight sheen.			
19		bkg	14					
20			3		Wet, multi-colored sand w/gravel & some tar paper & tar.		ML	
			2		Wet, brown/black silty sand, slight sheen.	BR		
			13		Wet to moist, blue-gray shale. Refusal at 19.8 ft. BGS.			
			50/0.3					

CREATED BY: CH
CHECKED BY: SCC



PROJECT:	GAF	BORING:	MW-4D
LOCATION:	Erie, Pa	WELL:	MW-4D
JOB NUMBER:	3410100795	START:	14:50
CLIENT:	Erie County Convention Center Authority	DATE:	10/25/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon & NX core
Field Scientist:	Sean Condra	Bore Hole Diameter:	6.5in. & 3.75 in.
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	583.08	Sampling Device:	140 lb. split spoon & 3.75 in. NX Rock core
Northing:		Total Depth:	29.8 ft. BGS
Eastng:		Depth to Water:	
Ref. Elevation:	582.56	GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
21					3.75 in. NX rock core from 19.8 ft to 29.8 ft.		<p>Bentonite chips from 1 -23.8 ft.</p> <p>2 in. ID sch 40 PVC casing.</p> <p>Sand Pack 23.8' to 29.8 ft.</p> <p>2 in. ID 0.02 in. slot PVC screen 24.8 ft to 29.8 ft.</p>
22					Siltstone interbedded w/shale, some vertical fractures present.	BR	
23		bkg					
24							
25							
26							
27							
28							
29							
30							
31					Total depth of boring at 29.8 ft. below ground surface.		
32							
33							
34							
35							
36							
37							
38							
39							
40							

CREATED BY: CH
 CHECKED BY: SCC
 PAGE: 2 of 2



PROJECT:	GAF	BORING:	MW-10
LOCATION:	Erie, Pa	WELL:	MW-10
JOB NUMBER:	3410100795	START:	11:05
CLIENT:	Erie County Convention Center Authority	DATE:	10/27/2010
Driller:	Terra Testing	Drilling Method:	HSA/spill spoon & NX Rock Core
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5" & 3.75 in.
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	583.05	Sampling Device:	140 lb. split spoon & NX Rock Core.
Northing:		Total Depth:	36.7 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:	582.76	GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:		
1					Air knife to 4 ft., no obstructions encountered.	FILL	Steel flush mount		
2		bkg			Hollow stem auger to 4 ft. Dry, black, sandy, clayey top soil.		Concrete 0-1.5ft		
3									
4								Bentonite Chips	
5		bkg	4	60	Dry, black/brown sand & gravel w/some multi-colored sand.			From 1.5 ft to	
6			5		Dry, black shingles, tar w/some gravel, & multi-colored sand.			13.5 ft	
7		bkg	1						
8			3	10	Dry, green, red & blue sand.				
9		bkg	5		Dry, same as above w/some solidified tar & wood.			2 in. ID sch 40.	
10			3					PVC casing to	
11		bkg	3					18 ft.	
12			1	60					
13		bkg	9		Dry, black shingles, solidified tar & multi-colored sand. Some wood at 13 ft.				
14			6						
15		bkg	4	65					
16			10						
17		bkg	10						
18			11	100					
19		bkg	12						
20			10						
		bkg	4	90	Wet, coarse sand & silt w/shell fragments, wood & shingle fragments.		Sand Pack from		
			3				13.5 to 26 ft.		
		bkg	3						
			2						
		bkg	1	0					
			1						
		bkg	1						
			1						
		bkg	5	100			2 in., ID 0.02 slot		
			4				PVC screen from		
			2				16 ft to 26 ft.		

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	MW-10
LOCATION:	Erle, Pa	WELL:	MW-10
JOB NUMBER:	3410100795	START:	11:05
CLIENT:	Erle County Convention Center Authority	DATE:	10/27/2010

Driller:	Terra Testing	Drilling Method:	HSA/split spoon & NX Rock core
Field Scientist:	Sean Condle	Bore Hole Diameter:	8.5" & 3.75 in.
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	583.05	Sampling Device:	140 lb. split spoon & NX rock core.
Northing:		Total Depth:	36.7 ft. BGS
Easting:		Depth to Water:	Date:
Ref. Elevation:	582.76	GW Elevation:	Date:

DEPTH (ft.-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
21	Shelby Tube MW-10 #1			100	Wet, coarse sand & silt w/shell fragments, wood & shingle fragments.	FILL	<p>2 in., ID 0.02 slot PVC screen from 16 ft to 26 ft.</p>
22							
23		bkg	4	90			
24			4 5 7				
25		bkg	1	80	Wet, dark gray silt & clay w/some sand.	ML	<p>Sand Pack from 13.5 to 26 ft.</p>
26			1 2 1				
27		bkg	32	100			
28					Moist, blue-gray weathered shale. Refusal at 26.7 ft.	BR	<p>Bentonite chips from 26 ft to 36.7 ft.</p>
29					3.75 in. NX Rock Core from 26.7 ft to 36.7 ft.		
30					Blue-gray shale Interbedded with siltstone.		
31							
32							
33							
34							
35							
36							
37					Boring complete at 36.7 ft. below ground surface.		
38							
39							
40							

CREATED BY: CH
 CHECKED BY: SCC



PROJECT:	GAF	BORING:	B-18
LOCATION:	Erie, Pa	WELL:	MW-12
JOB NUMBER:	3410100795	START:	1300
CLIENT:	Erie County Convention Center Authority	DATE:	11/9/2010
Driller:	Terra Testing	Drilling Method:	HSA/split spoon
Field Scientist:	Sean Condie	Bore Hole Diameter:	6.5"
Surveyor:	Sanford Surveying	Auger Size:	4 1/4" I.D.
Ground Elevation:	577.99	Sampling Device:	140 lb. split spoon
Northing:		Total Depth:	14.7 ft. BGS
Easting:		Depth to Water:	
Ref. Elevation:	577.58	GW Elevation:	

DEPTH (ft-bgs)	ANALYTICAL SAMPLE	PID READING	SPLIT SPOON BLOWS PER 6 INCHES	% RECOVERY	SOIL DESCRIPTION	SOIL CLASSIFICATION	WELL DIAGRAM:
1					Cut 6 in. asphalt.		<p>Steel flush mount in concrete.</p> <p>Bentonite chips from 1.0 to 4.3 ft.</p> <p>2 in. ID sch 40, PVC casing to 8.5 ft.</p> <p>Sand pack from 4.3 to 13.5 ft.</p> <p>2 in., ID 0.02 slot PVC screen from 5.5 to 13.5 ft.</p> <p>Bentonite Chips from 13.5-14.7ft.</p>
2		bkg			Air knife to 4 ft, no obstructions encountered. Hollow stem auger to 4 ft. Dry, brown sand and gravel.	FILL	
3							
4							
5		bkg	2	40	Dry, brown sand and gravel w/some crushed brck.		
6			2				
7		bkg	1				
8			1				
9			2	5	Wet, same as above.		
10			2				
11		bkg	3	80	Dry, gray siltstone & wood. Wet, green/gray clay & silt w/some sand & siltstone fragments.		
12			3				
13		bkg	4				
14			3	100			
15		bkg	25				
16			43	100	Wet, blue-gray shale.		
17			50/0.2		Total depth/refusal at 14.7 ft. below ground surface.		
18							
19							
20							

CREATED BY: CH
 CHECKED BY: SCC

HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

FORMER GAF BUILDING MATERIALS SITE

Erie, Pennsylvania



Submitted to:

Pennsylvania Department of Environmental Protection

Prepared for:

Erie County Convention Center Authority

Erie, Pennsylvania

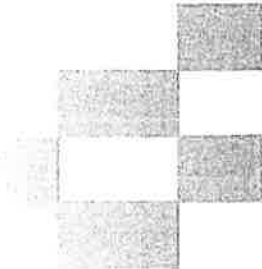
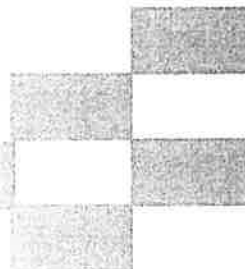
Prepared by:

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February 11, 2013

Project No. 3410110844



HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

FORMER GAF BUILDING MATERIALS SITE

Erie, Pennsylvania

FEB 11 2013

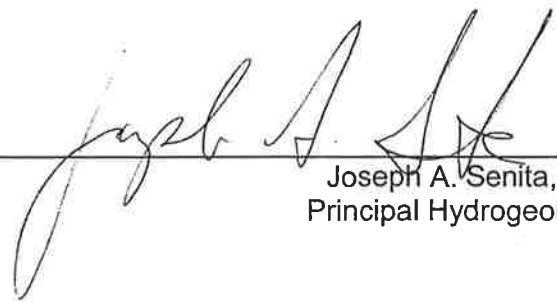
February 11, 2013

Project No. 3410110844

This report was prepared by the staff of AMEC
Environment & Infrastructure, Inc. under the
supervision of whose signature(s) appear hereon.



Robert E. Crowley
Senior Principal Scientist



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EXECUTIVE SUMMARY

AMEC Environment & Infrastructure, Inc. (AMEC) has prepared this Risk Assessment Report (RA) on behalf of the Erie County Convention Center Authority (ECCCA) for the former GAF Building Materials Manufacturing Corporation (GAF) facility (now known as Bayfront Place) located at 218 West Bayfront Parkway, Erie, Erie County, Pennsylvania (Site). This RAR has been prepared in accordance with the Pennsylvania Department of Environmental Protection (PADEP) Land Recycling and Environmental Remediation Standards Act of 1995 (Act 2), the Act 2 regulations located at 25 PA Code Chapter 250, and the associated Technical Guidance Manual (TGM). In accordance with the regulations, ECCCA submitted a Notice of Intent to Remediate (NIR) the Site under the Site Specific Standard (SSS) to PADEP on December 13, 2010 and made appropriate public notifications. The City of Erie has not requested a Public Involvement Plan. AMEC submitted an Act 2 Remedial Investigation Report (RIR) to PADEP in October 2011 that was subsequently approved in January 2012.

The RA is a critical part of a larger project being undertaken by ECCCA referred to as the "Former GAF Building Materials Site Concept Planning and Remediation Services Project" (Project). The key goal of the "Concept Planning" task (also referred to as the "Act 2 End Use Determination") was to define the highest and best future use(s) for the Site to guide the subsequent remedial efforts. The key goal of the "Remediation Services" task is to facilitate attainment of the appropriate Act 2 Remediation Standard(s) necessary to realize the intended end use as described in the Final Concept Plan Report. The Concept Planning Task was completed between August 2011 and April 2012 and concluded with ECCCA approval of the Final Concept Plan Report on April 5, 2012.

The Site, which consists of approximately 12.46-acres located on the southern shore of Presque Isle Bay, was used to manufacture roll roofing material and asphalt shingles from approximately 1903 to 2007. The Site is bounded to the north and west by Presque Isle Bay (Bay), to the south by an inactive CSX rail line and the Bayfront Parkway, and to the east by Sassafras Street, beyond which, is the Bayfront Convention Center. Historically, approximately 10 acres of the Site were occupied by buildings, tanks, above ground pipe runs, and roadways associated with manufacturing. However, by late October 2010, GAF had demolished and removed structures, tanks, and equipment, such that all that remained on the approximately 10 acres at the Site were roadways, floor slabs, and foundations. As an interim step consistent with the proposed Clean-Up Plan, these materials were removed by ECCCA in 2012 in

accordance with a National Pollution Discharge Elimination System (NPDES) Permit. The balance of the site, approximately 2.5 acres, contains scrub vegetation, primarily along the Bay shoreline. A portion of the 2.5 acres is below the waters of the Bay on the western side of the Site.

Most of the Site is made land, which was created by successively placing fill into the Bay on the northern end of the property over approximately 100 years. The fill contains various materials, including soil, construction debris, tar, waste tarpaper, and shingle trimmings. The ground surface at the Site is relatively flat with an average elevation of approximately 580 feet above mean sea level (ft-amsl). A knoll at the northern end of the Site is approximately 588 ft-amsl.

The fill overlies shale bedrock that is encountered at depths between approximately 4 and 30 feet below ground surface (ft-bgs) and dips to the north. Groundwater occurs in unconsolidated fill, and flows north-northeast in the southern portion of the Site and north-northwest in the northern portion of the Site, where it discharges to the Bay. The depth to groundwater ranges from approximately two ft-bgs (578 ft-amsl) in the southwestern end of the Site to approximately 15 ft-bgs (571 ft-amsl) at the northern end. The mean water elevation of the Bay is approximately 570 ft-amsl. Aquifer testing completed during the Remedial Investigation (RI) indicates that the average hydraulic conductivity of the aquifer is approximately 1×10^{-3} centimeters per second (cm/sec).

During the characterization activities described in the RIR, 14 groundwater monitoring wells (12 shallow and two deep) were constructed and over 50 soil borings and five test pits were completed. Groundwater samples were collected from each shallow well during at least two sampling events between 2008 and 2011 and were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semivolatiles organic compounds (SVOCs), Target Analyte List (TAL) metals, and polychlorinated biphenyls (PCBs). The deep wells were installed to allow for monitoring of hydrogeologic characteristics during aquifer testing.

As described in the RIR, between 40 and 50 soil (fill) samples were collected and analyzed for the same parameters. In addition, five sediment samples were collected from the Bay, as were roofing material and solidified tar on the surface of the embankment along the Bay. Four samples of the fill were analyzed for asbestos containing material.

Finally, following approval of the RIR in January 2012, PADEP suggested that additional evaluation of diffuse groundwater discharge to the Bay be completed to further assess potential risk to ecological and human receptors. That work is described here and included computer modeling and the collection of three surface water samples from the Bay.

The key results of the RA include the following:

- 1) Constituents of potential concern (COPCs) were screened against the USEPA Region III Regional Screening Levels (RSLs). COPCs found to exceed the screening values or those that had no screening value were carried forward into a quantitative risk assessment.
- 2) Groundwater was screened; however, the only potential direct exposure pathway to groundwater is dermal contact by a future construction worker. Groundwater could potentially contribute to vapor intrusion into future buildings, which was evaluated using the Johnson & Ettinger Model.
- 3) Groundwater likely discharges to the Bay; therefore, transport of COPCs in groundwater was modeled to the Bay. With the exception of dissolved iron, all of the modeled COPCs were less than their benchmark criteria. Samples were collected from the Bay and analyzed for dissolved iron. Dissolved iron was not detected in any of the samples in a concentration exceeding the laboratory method detection limit (MDL) of 12 ug/L. The surface water quality standard for dissolved iron is 300 ug/L.
- 4) The risks and Hazard Index (HI) were calculated for the potential recreational user exposure to surface water for constituents that required Pentox modeling.
- 5) Risks were calculated for a future resident, a future commercial worker, a future recreator, and a future construction worker exposed to soil, groundwater, surface water and air on the Site. The results of the risk assessment indicate that the hazard index would exceed 1.0 and the summed risks would exceed 1×10^{-4} for the resident, the recreator, the construction worker and the future commercial worker in the absence of remediation or the elimination of the complete exposure pathways. The soil contact pathway drives the risks and hazards for all receptors; the indoor air pathway also results in unacceptable risks. Additionally, the hazard index for the future construction worker exposed to soil on the Site exceeds 1.0 due to the presence of naphthalene.

AMEC concludes that remedial actions will be necessary to mitigate the potential for future risks on the Site associated with Site-related COPCs. A Cleanup Plan has been prepared and is being reviewed by PADEP that describes both engineering and institutional controls necessary to eliminate potentially complete exposure pathways.

1.0 INTRODUCTION

AMEC Environment & Infrastructure, Inc. (AMEC) has been contracted by the Erie County Convention Center Authority (ECCCA) to prepare a Human Health and Ecological Risk Assessment (RA) for the former GAF Materials Site (Site) (now known as Bayfront Place) located at 218 Bayfront Parkway in the City of Erie, Erie County, Pennsylvania. The Site is located north of the Bayfront Parkway and west of the Bayfront Convention Center, on Presque Isle Bay. **Figure 1** provides the location of the Site on the United States Geological Survey (USGS), Erie North, PA 7.5-minute topographic quadrangle map. **Figure 2** provides a historical Site plan illustrating the Site layout prior to demolition of structures in 2010. **Figure 3** presents the Existing Conditions Site Plan as of June 2012, prior to the removal of hard surfaces.

This RA has been prepared in accordance with the Pennsylvania Department of Environmental Protection (PADEP) Land Recycling and Environmental Remediation Standards Act of 1995 (Act 2); the Act 2 regulations located at 25 PA Code Chapter 250; and the associated Technical Guidance Manual (TGM). In accordance with the regulations, ECCCA submitted a Remedial Investigation Report (RIR) and a Notice of Intent to Remediate (NIR) the Site under the Site Specific Standard (SSS) to PADEP on December 13, 2010 and made appropriate public notifications. The City of Erie has not requested a Public Involvement Plan. AMEC submitted an Act 2 Remedial Investigation Report (RIR) to PADEP in October 2011 that was subsequently approved in January 2012.

The RA is a critical part of a larger project being undertaken by ECCCA referred to as the "Former GAF Building Materials Site Concept Planning and Remediation Services Project" (Project). The key goal of the "Concept Planning" task (also referred to as the "Act 2 End Use Determination" task) was to define the highest and best future use(s) for the Site to guide the subsequent remedial efforts. The key goal of the "Remediation Services" task is to facilitate attainment of the appropriate Act 2 Remediation Standard(s) necessary to realize the intended land use as described in the Final Concept Plan Report. The Concept Planning Task was completed between August 2011 and April 2012 and concluded with ECCCA approval of the Final Concept Plan Report on April 5, 2012.

The approved Concept Plan recommends mixed use redevelopment of the Site. During the Concept Planning task, it was determined that a multi-story parking deck would be needed to

meet the demands of future development. Further, it was determined that the appropriate location would be along Sassafras Street (**Figure 4**) to provide cover over an area known to contain non-aqueous phase liquids (NAPL).

In May 2012 ECCCA received a National Pollution Discharge Elimination System (NPDES) permit related to removing the concrete floors and footers that remained following the 2010 demolition. As part of that permit, a Pennsylvania Natural Diversity Index (PNDI) database search was requested for that work, along with the anticipated cleanup activities that include construction of a seawall along the Bay. The results provided by the Pennsylvania Fish and Boat Commission (PFBC) are provided in **Appendix A** and indicate that “no adverse impacts are expected from the proposed project”.

An Act 2 Cleanup Plan was prepared based on the findings presented in this Risk Assessment and submitted to PADEP in July 2012. The approval of the Cleanup Plan is pending PADEP approval of this Risk Assessment. In general, the proposed remedial measures include:

- 1) Covering the Site with clean soil (as defined by PADEP), crushed concrete from removal of the hard surfaces, impervious surfaces and or structures with vapor mitigation controls as necessary;
- 2) Constructing a steel sheet pile seawall along the Bay and piping the existing storm water drainage ditch; and
- 3) Constructing a cement/bentonite cutoff wall along Sassafras Street in the NAPL area. It is currently anticipated that these measures will be implemented during 2013.

1.1 OBJECTIVES AND OVERVIEW

The purpose of this RA is to evaluate the potential for adverse effects to human health and the environment, which could be associated with constituents identified during the RI. This report is intended to provide an assessment of the potential for unacceptable cancer risks or non-cancer hazards, in order to make risk management decisions regarding the need to limit exposure or perform remedial action(s) at the Site. The risk assessment was conducted in accordance with the requirements of the Site-Specific Standard under Pennsylvania’s Act 2, the associated regulations published at 25 PA Code Chapter 250 and in general conformance to the USEPA document “*Risk Assessment Guidance for Superfund (RAGS), Part A*” (USEPA, 1989).

The objectives of the risk assessment are to 1) identify potentially complete, realistic exposure pathways associated with each area of the Site; 2) identify constituents of potential concern (COPCs) using conservative, health-based screening values; 3) quantify the magnitude of potential exposure to COPCs based on the potentially complete exposure pathways; and 4) combine the magnitude of exposure, the concentrations and the toxicological properties of each COPC to quantify the potential for adverse human health effects related to exposure to the environmental media at the Site.

To achieve the stated objectives, the human health risk assessment first identifies the receptors, potential exposure pathways, and COPCs, and evaluates the potential magnitude of exposure to each receptor. The exposure point concentrations used in this RA were calculated using the USEPA ProUCL program (Version 4.1), available on the USEPA website. The ProUCL program utilizes a number of statistical tests to calculate the exposure point concentration, and recommends the appropriate value based on the distribution of the data set. The risk assessment then quantifies the theoretical excess lifetime cancer risks and non-cancer Hazard Indices (HIs) for each potentially complete exposure pathway and applicable COPC using the Oak Ridge National Laboratories (ORNL) Risk Assessment Information System (RAIS) Preliminary Remediation Goal (PRG) calculator. The RAIS PRG calculator was used for ease of calculating acceptable target concentrations of COPCs (as defined by PADEP); however, site-specific exposure parameters were input into the RAIS. The exposure point concentrations from the Site were then divided by the target PRG concentrations calculated in the RAIS and multiplied by the target risk (1×10^{-6}) or the target hazard quotient (HQ; 1.0) to derive a cancer risk or HQ for each COPC. Indoor air for the future residential receptors was evaluated using the USEPA Excel spreadsheet version of the Johnson & Ettinger Model. The risks or HQs are then summed to determine the overall cumulative theoretical cancer risk or HI posed by the Site to each receptor. Finally, the risk assessment provides a summary of the uncertainty in order to facilitate risk management in the remedial decision process.

The only ecological receptors potentially affected by Site COPCs are aquatic receptors in the Bay. The relevant constituent transport route to the Bay is through sediment erosion and diffuse groundwater discharge from the Site to the Bay. The sediment exposure route was evaluated by comparing existing sediment data with information presented by PADEP in recently published risk assessment documents prepared as part of their efforts to delist the Bay as a Great Lakes Area of Concern (AOC). The diffuse groundwater discharge route was evaluated

by screening the existing data from perimeter groundwater monitoring wells against the published PADEP surface water quality standards at 25 PA Code Chapter 93. Analytes exceeding the Chapter 93 criteria were carried forward as COPCs. The COPCs were then evaluated using the Quick Dominico, SWLoadSB5, and the PENTOX SD models. COPCs that exceeded the Chapter 93 criteria after modeling were evaluated by collecting samples from the Bay.

1.2 LIMITATIONS

The following RA report presents a summary of information known to AMEC concerning the Site that AMEC considers pertinent to the scope of work and stated project objective. AMEC has performed this assessment with the care and skill ordinarily used by members of the profession practicing under similar conditions. The conclusions presented herein are those that are deemed pertinent by AMEC based upon the assumed accuracy of the available information. No other warranty, expressed or implied, is made as to the professional advice included in this report. The information present in this report is not intended for any use other than the stated objectives of the project.

This document was prepared for the sole use of the ECCCA and the PADEP, the only intended beneficiaries of our work. No other party shall rely on the information contained herein without prior written consent of AMEC.

2.0 BACKGROUND

Between approximately 1903 and 2007, the Site was used for the manufacture of residential and commercial asphalt roofing products. The process utilized tar, crushed stone, ground talc, and paper products as raw materials. The Site produced rolled roofing material for industrial and commercial applications and residential roofing shingles. Manufacturing operations ceased at the Site in March 2007, and by the end of October 2010, GAF had demolished and removed structures, tanks, and equipment that were located on Site. The Site was acquired by ECCCA from GAF in November 2010.

Records reviewed during the 2008 Phase I ESA indicate that the Site contained numerous buildings constructed between 1903 and 1990. When manufacturing activities ceased in 2007, various separate structures were present on the Site that occupied approximately 10 acres. **Figure 2** shows the locations of these structures, and a summary of the uses of these buildings is provided in the following table:

Building Number	Location	Former Use
1	Northern end of Site	Warehouse
3	Southeast corner of Site	Main Office
4, 5, 16	Southern portion of Site	Storage
6	South-central portion of Site, north of southern rail spur	Compressor Room
6A		Lunch Room
7		Storage/Breezeway
7A		Storage/Breezeway
19		Storage
8	Northern portion of manufacturing area, south of Tank Farm	Old Tar Stills
9		Line 2 (Rolled Roofing) Mill
20		Storage
40		Stills
21		Line 1 (Residential Roofing) Mill
37		Line 1 Cutter
10		Line 1 Wrapper/Palletizer
11	West of 500,000-gallon AST	Limestone Silo
13	East of Tank Farm	Boiler House
--	West of Building 13	Main Transformer Building
39	Western side of central area	Shear Shop
45	North of 500,000 gallon AST	Main Storage
38	East of 500,000 gallon AST	Sand Silos
49	Immediately east of Building 38	Sand Dryer

At least 26 large-capacity ASTs were utilized in the process in the recent past. These included a 500,000-gallon tar storage tank (Tank 1) and numerous smaller tar storage and distillation tanks (**Figure 2**). Additionally, a number of aboveground hoppers were located at the Site, and were used for storage of stone, sand and talc products. The ASTs contained various products and were not necessarily in service at the time of the plant closure. The following table provides a summary of the ASTs listed in the records for the Site.

Tank Number	Capacity (gallons)	Contents
1	500,000	Asphalt
2	150,000	Asphalt*
4	30,000	Asphalt
5	97,000	Asphalt*
6	13,800	Asphalt*
9	Unknown	Cooling Water
13	12,000	Asphalt
14	6,000	Used Oil
15	2,100	Gas Well Brine
16	660	Asphalt
17	150	Asphalt
18	1,100	Asphalt
19	330	Asphalt
20	225	Asphalt
21	225	Asphalt
22	500	Hot Oil Transfer
23	500	Hot Oil Transfer
24	500	Diesel
1D	17,038	Asphalt*
2D	17,038	Asphalt*
3D	17,038	Asphalt*
4D	17,038	Asphalt
5D	17,038	Asphalt
6D	17,038	Asphalt*
--	275	Kerosene
--	1,000	Propane

"*" - indicates AST was out of service prior to plant closing in 2007.

"--" indicates no tank number assigned.

2.1 SITE DESCRIPTION

The Site consists of approximately 12.46-acres located on the southern shore of Presque Isle Bay (**Figure 1**). The Site is bounded to the north and west by the Bay, to the south by an inactive CSX rail line and the Bayfront Parkway, and to the east by Sassafras Street, beyond which, is the Bayfront Convention Center, which is also owned and operated by ECCCA. Historically, approximately 10 acres of the Site were occupied by buildings, tanks, above ground

pipe runs, and roadways associated with manufacturing. The remaining approximately 2.5 acres contained scrub vegetation, primarily along the Bay shoreline. The northern boundary of the Site consists of relatively steep embankments to the Bay, as shown on **Figure 2**, and contains large pieces of concrete and rubble and various fill material covered with scrub vegetation. The western portion of the Site contains an old vertical concrete seawall in a visible state of disrepair.

Most of the Site is made land, which was created by successively placing fill into the Bay on the northern end of the property over approximately 100 years. The fill contains various materials, including soil, construction debris, tar, waste tarpaper, and shingle trimmings.

The ground surface at the Site is relatively flat with a low area in the center. According to the Site survey conducted during the 2009 Phase II ESA (prior to demolition), Site elevations range from approximately 578 feet above mean sea level (ft-amsl) in the center of the Site to 588 ft-amsl in the northern end (**Figure 2**). The elevation of most of the Site averages approximately 580 ft-amsl. During demolition activities in 2010, GAF established grades between the ground surface and the elevated building floors by placing crushed demolition debris at the margins of the buildings (**Figure 3**).

Prior to construction of the Bayfront Convention Center in 2007, the properties to the east had historically been used for industrial purposes. The Erie Water Authority currently operates a treatment plant to the west of the Site. The area to the south is the urbanized downtown area of the City of Erie. In recent years, areas of the Bay front have been redeveloped by the City and others into the Bayfront Convention Center, tourist attractions, condominiums, and marinas. North of the Bay is Presque Isle State Park.

2.1.1 Concept Plan Land Use

The approved Concept Plan recommends a mixed use redevelopment of the Site (**Figure 4**). The potential Site uses range from residential (which has the highest potential for exposure) to commercial (which has the lowest potential for exposure), and also includes a recreational use scenario and a parking garage. The potential Site uses are described below, along with the associated potential exposure scenarios:

- Western portion of the Site along the Bay – Park/Public Access: Bay front walkway, and a seawall. This area would be covered with either grass or paved walking areas. Potential exposures in this area would include those for recreational activities including fishing, wading/swimming in the Bay, and other outdoor activities in the park.
- Northern portion – Hospitality/Restaurant: Currently, it is expected that either a hotel or restaurant(s) will occupy this area. Potential exposures in this area would be more consistent with a commercial use scenario; however, the risk assessment evaluates this area as residential.
- Central portion of the Site – Single and multi-family residential, retail, restaurant, office, and parking. It is currently expected that the prominent feature of this part of the Site will be a multi story parking deck along Sassafras Street (**Figure 4**). The parking deck would be located over the area of the non-aqueous phase liquid (NAPL). It is envisioned that the ground floor of the parking garage could contain some commercial retail or office space. Therefore, the potential future exposures in this area would be commercial. The potential exposures for users of the future parking garage are negligible, and will not be quantitatively evaluated in the risk assessment. The remainder of the Central portion of the Site (south and west of the parking garage) would contain single and multi-family residential structures. Accordingly, exposures in this area would be residential.
- Southern portion of the Site – Multi-family residential and office space. The potential future exposures in this area would be residential and commercial, but are evaluated as residential because it is the more conservative of the two.

The anticipated redevelopment includes considerable residential use, and the risk assessment will evaluate that use using standard residential exposure assumptions. It is expected that various areas of the Site will be used for infrastructure including roadways, parking areas, sidewalks, utility corridors, etc. These areas will be evaluated in the risk assessment under the scenario of the closest occupied areas.

2.2 SITE SOIL

The unconsolidated material at the Site typically consists of fill that is approximately 10 to 15 feet thick. The entire Site from immediately north of the former process area to the northern limit of the Site is made land that was backfilled between 1903 and the 1970's. The fill in the area consists primarily of soil with a silty sand texture, shingles, cut shingle tabs, tarpaper, shingle sand, slag, and construction debris. The perimeter of the Site consists of concrete rubble, asphalt pavement, and rock placed as shoreline armouring. Scattered expressions of tar are present along the shoreline with the Bay and the open drainage channel along the eastern Site boundary.

Surface soil samples were collected from 30 locations on the Site. The results of these samples indicated that polynuclear aromatic hydrocarbons (PAHs) are present in concentrations exceeding the Act 2 residential Statewide Health Standards (SHS). The locations of the surface soil samples are shown on **Figure 5**.

Subsurface soil samples were collected from 54 locations on the Site. The results of the subsurface soil samples indicated that PAHs, volatile organic compounds (VOCs) and metals are present in concentrations exceeding the Act 2 residential subsurface soil standards. The locations of the subsurface soil samples are shown on **Figure 5**.

2.3 NAPL AREA

The Site investigations described in the RIR identified an area of NAPL located on the eastern side of the Site, between the Former Raw Materials Storage Area and the Former Distillation Area (**Figure 2**). The NAPL appears to be a viscous hydrocarbon product that is denser than water. Field observation of this material indicates that the majority of the NAPL appears to sink, while some may float; although only a sheen was observed on the surface of the groundwater and in sample jars. Furthermore, field observations indicate that the NAPL is very viscous and recharges into the monitoring wells extremely slowly.

Laboratory analysis of the NAPL indicates that significant quantities of naphthalene are present as well as lesser quantities of PAHs and traces of VOCs. As described in the RIR, based on the distribution of NAPL and dissolved groundwater concentrations down gradient of the NAPL area, it appears that the primary mechanism controlling migration is the topography of the bedrock surface, which in this area, appears to be dipping to the east toward Sassafras Street.

2.4 SEDIMENT

As reported in the RIR, samples were collected from a tar boil along the shoreline and five sediment locations in Presque Isle Bay and the open storm water drainage channel along the eastern Site boundary (**Figure 5**). The purpose of the sampling was to allow for a comparison of constituents within the Site materials and those within the sediment and thereby assess the extent to which Site materials may be present in Bay sediment. The results of these samples indicated that several PAHs were present in very low concentrations in the sediments; however, the PAHs detected were dissimilar to those detected on the Site. The RIR concluded that

further evaluation of the PAHs in sediment was not necessary. That conclusion is supported by the information discussed below.

The results of the “embankment” tar sample and sediment sample analyses were presented on Table 14 of the RIR. Table A-1 in **Appendix A** of this Risk Assessment presents that data, along with a summary of the Probable Effects Concentrations (PEC) and Presque Isle Bay sediment data presented in the September 2012 PADEP report titled “An Evaluation of Sediment Quality Conditions in Presque Isle Bay and Tributaries of the Bay: Assessing Compliance with the Ecosystems Health and Delisting Targets (2005 – 2009)”.

Review of Table A-1 indicates that sample “Sediment 3” contained the most PAHs at the highest concentrations. Comparison of the “Embankment” sample collected from a representative tar boil along the shore with the sediment data reveals that 11 of the 22 different PAHs detected in one or more of the sediment samples were not detected in the Embankment sample. Furthermore, comparison of Sediment 3 sample data (the sediment sample containing the most PAHs at the highest concentrations) with the Embankment data indicates that the two are substantively different as evidenced by:

- 1) Sample Sediment 3 (collected approximately 200 feet offshore) has a different distribution of PAHs appearing less weathered, i.e., contains more “light end” PAH's (2 and 3-ringed PAHs) such as naphthalene and phenanthrene, than the embankment or other sediments that were collected near the shore, adjacent to tar boils. Lower molecular weight components tend to degrade faster in the environment, leaving the higher molecular weight (and less soluble) compounds. If the embankment material was the source of PAH's in Sediment 3, concentrations of lighter end PAHs would decrease, not increase, with distance from the source; and
- 2) The concentrations of PAHs in the Embankment sample and sediment samples are, by and large, lower than the published PEC's, with the exception of Sediment 3. The constituents identified by PADEP in the Bay at large as COPCs are similar to the constituents detected in the sediment samples. Finally, the “Embankment” and near shore sediment data are typically less than the published data from the samples collected by PADEP from the Bay as shown on Table A-1 in **Appendix A**.

With respect to the sediment quality generally, the current status of Presque Isle Bay sediment has been adequately characterized in various studies published by PADEP. Presque Isle Bay was originally designated as a Great Lakes Area of Concern in part due to the PAH levels in its sediment. As part of the delisting process, in 2012, the Department commissioned a Screening

Level Ecological Risk Assessment of Presque Isle Bay (dated July 9, 2012) and An Evaluation of Human Health Risks from Contaminants in Presque Isle Bay (dated July 19, 2012).

The PADEP Ecological Risk Assessment included an assessment of the impacts of PAH COPCs in sediment, and it concluded the following: "The weight-of-evidence for sediment COPC effects on receptors conducted in this study, suggest that exposure to surface sediment COPCs are not posing a significant adverse impact on the overall PIB ecosystem." (Page 69).

The Human Health Risk Assessment also included an assessment of the impacts of PAH COPCs in sediment and it concluded the following as to PAH contaminated sediment: "The cancer and noncancer risk estimates for direct contact with contaminated sediments from Presque Isle Bay were generally below the target risk levels for all exposure groups evaluated in this HHRA. ... The exception to this was the Regional Maximum Exposure cancer risk estimate for child recreational users which was ...mainly driven by dermal exposure from total PCBs. It is noted that these risk estimates are conservative in nature and likely to overestimate the risk...." (Page 52).

Based on the above information, and the results of the PNDI provided by PFBC (**Appendix A**), further assessment of ecological or human health risk relating to sediments is not warranted and has not been performed. However, while the existing studies indicate that there is not currently an unacceptable ecological or human health risk from the contaminated sediments in Presque Isle Bay, the Site does have solidified tar boils and other potentially contaminating materials visually present within the embankments, which would be exposed to potential erosion. Therefore, the Cleanup Plan currently being reviewed by PADEP includes the construction of a seawall and piping the storm water drainage channel to mitigate the potential for future erosion from the Site.

2.5 GROUNDWATER

Twelve shallow monitoring wells were completed in the unconsolidated material (MW-1 through MW-12) and two deep wells were installed into the shale bedrock (MW-3D and MW-4D) during the Site characterization work (**Figure 5**). The groundwater table occurs in the shallow wells within the unconsolidated fill material throughout the entire Site. The depth to groundwater at the Site ranges from approximately two ft-bgs (580.19 ft-msl) at MW-7 to approximately 11.29 ft-bgs (571.76 ft-msl) at MW-10. According to data from NOAA's Erie PA Station ID 9063038

([www.http://tidesandcurrents.noaa.gov](http://tidesandcurrents.noaa.gov)) the water level in the Bay at the time of the November 2010 groundwater measurements was approximately 570.50 ft-msl. The groundwater flow direction is generally from the south, southwest to the north, northwest and discharges to the Bay. The hydraulic conductivity of the shallow aquifer is estimated to be approximately 1.0×10^{-3} cm/sec.

Groundwater samples were collected from each of the shallow (unconsolidated aquifer) wells at least twice, as reported in the RIR. The samples were analyzed for TCL VOCs, TCL SVOCs, dissolved TAL metals, and PCBs. The results indicate that various SVOCs, and to a lesser extent, VOCs and metals exceed the Act 2 Residential, Non-Use Aquifer MSCs. The Non-Use Aquifer MSCs were used because an ordinance exists in the City of Erie that prohibits the use of groundwater.

2.6 SURFACE WATER

Three surface water samples were collected from the Bay in March 2012 (**Figure 5**) and analyzed for dissolved iron. The sampling was completed because the results of the very conservative PENTOXSD model (described in Section 3.3) indicated that modeled concentrations of dissolved iron in groundwater discharging to the Bay exceed the PADEP surface water criterion. Due to the conservative nature of the model, samples were collected from the Bay in March of 2012 and analyzed for dissolved iron. Dissolved iron was not detected in any of the samples. The laboratory method detection limit (MDL) was approximately two orders of magnitude lower than the Chapter 93 criterion of 300 $\mu\text{g/L}$.

3.0 IDENTIFICATION OF CONSTITUENTS OF POTENTIAL CONCERN

This section presents the selection of the COPCs for the Site. The samples used in the selection process are shown on **Table 1**.

The COPCs for the soil exposure pathway were selected by screening the concentrations of the detected constituents in soil from zero to two ft-bgs against the USEPA Region 3 Regional Screening Levels (RSLs) for residential soil. The COPCs for groundwater exposure pathways were selected by screening the sample results against the USEPA Region 3 RSLs for tap water. In all cases, compounds that are considered carcinogenic by the USEPA used the published value in the USEPA Region 3 RSL table, which equates to a cancer risk of 1×10^{-6} . The published screening value for non-carcinogenic compounds was divided by 10 prior to screening because the published value equates to a hazard quotient (HQ) of 1.0, which could potentially screen out compounds that could contribute significantly to the overall Hazard Index (HI). In some cases (e.g. phenanthrene), the Region 3 RSLs do not contain screening values due to a lack of toxicity values in the USEPA Integrated Risk Information System (IRIS) database. Compounds lacking a Region 3 RSL were automatically carried forward into the quantitative risk assessment.

The VOCs that were identified as COPCs in soil and groundwater were also evaluated for their relevance to indoor air in the residential and commercial structures and to outdoor air for recreational exposure scenarios. Where residential and commercial structures coexist, the residential endpoint was preferentially used because it is more conservative than the commercial endpoint. The data from the area containing NAPL was included in the selection of the COPCs, but was segregated from the data set for the Johnson & Ettinger Model analysis. The data from the area of the NAPL was only evaluated in a commercial exposure scenario. This area was specifically selected for the parking garage to avoid any potential future residential vapor intrusion issues; however, it is currently anticipated that commercial space will be present on the ground level of the parking garage.

COPCs for surface water were selected by comparing groundwater data from perimeter monitoring wells (MW-3, MW-4, MW-6, and MW-10) to the aquatic life and human health standards presented in 25 PA Code Chapters 16 and 93. Note that the Great Lakes Water

Quality Criteria (Chapter 93.8e) were used when available. Analytes that exceeded the lower of the aquatic life or human health criteria were then carried forward for further evaluation.

For all sample media, compounds that were never detected on the Site were eliminated as potential COPCs. It should be noted that some compounds had detection limits in some samples that exceeded the screening values. However, these elevated detection limits were the result of analytical dilutions due to high concentrations of other Site-related compounds present in the sample. Per the USEPA RAGS Part A guidance (USEPA, 1989), elevated detection limits were removed from the data set if they skewed the representative concentration upward, and compounds with elevated detection limits that were never detected were eliminated as COPCs. Finally, metals that are considered essential nutrients were eliminated as COPCs in accordance with USEPA RAGS Part A (USEPA, 1989).

3.1 SOIL SCREENING

For soil samples, the data set was first separated into surface soil (zero to two ft-bgs) and surface/subsurface soil (zero to the top of the saturated interval) and then each data set was screened against the USEPA Region 3 residential RSL values. For compounds with a carcinogenic endpoint, the RSL value was used as published at a target risk of 1×10^{-6} . For compounds with a non-carcinogenic endpoint, the published RSL value was divided by 10 for a target HQ of 0.1. Compounds that did not have a published RSL were automatically retained as COPCs in the quantitative risk assessment. **Table 2** presents the results of surface soil screening. The locations of the soil samples are provided on **Figure 5**. Where present, COPCs are carried forward into the Site-specific analysis; compounds eliminated as COPCs through screening contribute a negligible amount of risk and need not be evaluated further in the risk assessment.

Fifty-four soil samples were collected from soil borings and surface locations on the Site. Thirty of the samples were collected from surface soils, and the remaining 24 were collected from subsurface locations at depths between 2 and 12.5 feet below ground surface (ft-bgs). The surface and subsurface soil samples were analyzed for VOCs by USEPA SW-846 Methods 8260B, SVOCs by USEPA SW-846 Method 8270, and metals by USEPA SW-846 Methods 6010/7421. The following presents a summary of the COPC screening for surface soil samples collected at the Site. Surface and subsurface soil samples to the top of the water table were sorted into one data set and screened against the RSLs. The data were further sorted into

those samples collected within the NAPL area and those outside of the NAPL area. The samples outside the NAPL area were used in the evaluation of the indoor air exposure pathway for the residential receptors. The samples inside of the NAPL area were used in the indoor air analysis of the commercial worker.

3.1.1 Surface Soil

Twenty-one metals, 14 VOCs, and 27 SVOCs were detected in the 30 surface soil samples collected on the Site. **Table 2** presents the screening of the detected compounds against the appropriate screening values. The results of the screening indicate that four metals, 16 SVOCs and one VOC are present in soil exceeding their respective screening values. Those 21 compounds that exceeded their respective screening values will be carried forward for quantitative analysis in the risk assessment.

3.1.2 Subsurface Soil

Nineteen metals, 21 VOCs, and 29 SVOCs were detected in the 54 surface/subsurface soil samples collected on the Site. **Table 3** presents the screening of the detected compounds in surface and subsurface soils (referred to as "Total Soils" on **Table 3**), against the appropriate screening values. The results of the screening indicate that six metals, four VOCs, and 23 SVOCs are present in soil exceeding their respective screening values. These 33 compounds will be carried forward into the risk assessment only for the construction worker exposure scenario. Two VOCs identified as COPCs in the area outside of the NAPL area will be carried forward for the residential indoor air and the recreational outdoor air exposure pathways; those Four VOCs identified as COPCs inside of the NAPL Area will be carried forward into the commercial worker indoor air exposure pathway.

3.2 GROUNDWATER SCREENING

Groundwater is being addressed on a Site-wide basis in this risk assessment. Twelve shallow (i.e., unconsolidated aquifer) monitoring wells are located on the Site. These wells were sampled at least two times each during the remedial investigation and all of these data were used in this risk assessment. The locations of the groundwater monitoring wells are shown on **Figure 5**. Detections from the groundwater sampling events in each well were compared to the Region 3 RSL tap water value and the results are shown on **Table 4**.

The results of the screening indicate that eight metals, 26 SVOCs and 14 VOCs are present in groundwater at the Site above the USEPA Region 3 RSLs. Therefore, these 48 compounds are COPCs in groundwater. The groundwater VOC data were also sorted into that outside of the NAPL area and that inside the NAPL area. These data sets were each screened against the Region 3 RSLs. The VOCs exceeding their respective RSL will be evaluated further in the Site-specific risk assessment for the residential indoor air and the recreational outdoor air exposure pathways (data outside of the NAPL area - 9 groundwater VOCs) and for the commercial worker indoor air exposure pathway (those inside of the NAPL area - 5 VOCs).

3.3 SURFACE WATER

COPCs in groundwater that could impact surface water were identified using the procedure described in item 1 below. The potential impacts to the Bay by the COPCs were then evaluated using QD, SWLoad5B and PENTOX SD models as described below in bullets 2 through 4. The results are summarized on **Table 5**.

- 1) COPCs were identified by comparing concentrations of analytes detected in perimeter groundwater monitoring wells to PADEP aquatic life and human health surface water quality criteria from 25 PA Code 93 and 16. The perimeter monitoring wells are those closest to the Bay and include MW-3, MW-4, MW-6 and MW-10. The constituents exceeding the criteria are shown on **Table 5**.
- 2) Prior to running the SWLoad5B model, the degradation rate input variable for the organic COPCs was calibrated using the Quick Dominico (QD) model and the highest concentration of the constituent observed on-Site (typically from MW-5). A description of the QD model calibration and results are provided in **Appendix A**.
- 3) Using the input derived from item 2 above, the SWLoad5B model was run that predicts the concentration at the point of discharge and compares it to the "edge criteria" derived from the PADEP Technical Guidance Manual (TGM). The model output states whether or not the PENTOX SD is required.

The SWLoad5B input variables are provided in **Appendix A**. The maximum detected concentration of each analyte observed in samples from the perimeter wells was used and aquifer characteristics (hydraulic conductivity, hydraulic gradient, and thickness) were taken from the RIR. The degradation rates for benzene and naphthalene from the QD calibration models were used. For other constituents, the values from **Table 5** of 25 PA Code Chapter 250 were used for the reasons stated in **Appendix A**. The SWLoad5B modeling indicated that further analysis was necessary using PENTOX SD for benzene, naphthalene, arsenic, iron, and selenium.

- 4) The five constituents that SWLOAD5B identified were evaluated using the PENTOX SD model. The PENTOX SD input variables and results are provided in **Appendix A**.

PENTOX SD estimates the in-stream concentration of constituents resulting from a point source discharge with known characteristics (i.e. flow rate and concentration) to a stream with known flow characteristics. The constituents evaluated in the PENTOX SD model are non-bioaccumulating. Therefore, the PENTOX SD model was run to account for the 10X dilution factor as indicated in the "Final Water Quality Guidance for the Great Lakes System" (FR March 23, 1995, Vol. 60, No. 56 pages 15365 – 15425). All of the constituents modeled with PENTOX SD meet the Water Quality Based Effluent Limits (WQBEL) calculated by the model except for dissolved iron. Therefore, only dissolved iron warranted additional evaluation.

- 5) In order to evaluate the significance of iron in the Bay, surface water samples were collected from the Bay in accordance with 25 PA Code 250.406. Following discussions with PADEP, AMEC collected three surface water samples on March 30, 2012 from approximately three feet off-shore. The locations of the samples are shown on **Figure 5**. The samples were collected into an unpreserved plastic bottle and field filtered through a 0.45 micron filter. The filtrate was placed into a pre-preserved, laboratory provided sample bottle and hand delivered to Test America in Pittsburgh, PA for dissolved iron analysis. None of the samples contained dissolved iron in concentrations exceeding the laboratory method detection limit (MDL) of 12 µg/L (**Appendix A**). The dissolved iron standard for surface water is 300 µg/L (25 PA Code 16).

Results of the above procedures indicate that diffuse groundwater discharge from the Site is not causing an exceedance of relevant surface water quality criteria. That conclusion, along with the results of the PNDI in **Appendix A**, indicates that no further ecological risk evaluation is necessary.

With regard to the human health evaluation, compounds that were subjected to the SWLoad5B model that resulted in the need for the PENTOX model were evaluated in the human health risk assessment for the recreational receptor. The evaluation resulted in five compounds remaining as COPCs. The representative concentrations used were the modeled SWLoad5B concentrations (presented in **Table 5**). The potential cancer risks and non-cancer hazard indices to the recreational user of the Bay are presented in Section 5.0.

3.4 INDOOR/OUTDOOR AIR

VOC concentrations were measured on the Site in groundwater, soil, and NAPL. VOCs detected in groundwater and in soil in the unsaturated zone were modeled to determine their potential concentrations in the exposure media (indoor or outdoor air). The indoor air pathway was evaluated via use of the USEPA Excel spreadsheet version of the Johnson & Ettinger Model (**Appendix D**) for the on-Site resident and the commercial worker. Potential air exposures for the construction worker are considered in the ORNL RAIS PRG calculator, and are therefore not evaluated using the Johnson & Ettinger Model.

Outdoor air exposures to a future recreational user of the Site were evaluated using the methodologies described in the American Society for Testing and Materials (ASTM) Designation E1739-95 (Reapproved 2010) entitled “*Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*”. A summary of the outdoor air modeling and the resulting air concentrations are provided below.

The VOC concentrations in outdoor air were calculated in accordance with ASTM Designation E1739-95 (Reapproved 2010), Appendix 2: “*Development of Risk-Based Screening Levels (RBSLs)*” appearing in sample look-up, Section X2.7: “*Subsurface-Inhalation of Outdoor Vapors*”. This model assumes a constant chemical concentration for each respective parameter within the subsurface soils of interest (i.e. no depletion of the source). The model input concentration used for each volatile COPC was the maximum detected groundwater concentration within the recreational area (west side of the Site) for samples collected during the RI. Linear equilibrium partitioning was then applied to the concentrations selected in order to calculate the equilibrium vapor concentration for each respective parameter. The following equation to calculate the equilibrium vapor concentration is provided within the ASTM Standard:

$$C_{v,eq} = H C_{w,eq}$$

Where:

$C_{v,eq}$ = Equilibrium vapor concentration (vapor phase concentration) (mg/m³-vapor)
 $C_{w,eq}$ = Equilibrium dissolved concentration (concentration in groundwater) (mg/m³-H₂O)
 H = Henry's law constant [(mg/m³-vapor)/(mg/m³-H₂O)--“dimensionless”]

However, the values selected for Henry's Law Constant, from the Estimation Programs Interface (EPI) Suite™ developed by the U.S. Environmental Protection Agency's (EPA) Office of Pollution Prevention Toxics and Syracuse Research Corporation (SRC; U.S. EPA, 2000), were given in units of [(mg/m³-H₂O)/(mg/m³-vapor)]. This incongruence within units requires the equation to be rearranged to the following:

$$C_{v,eq} = \frac{C_{w,eq}}{H}$$

As such, the equation presented above was utilized in calculating the Vapor Concentration within this Risk Assessment. A summary of the results of this calculation, and all subsequent calculations, for each respective parameter are provided on **Table 6**. Once the vapor phase concentration was determined, the effective diffusivity through the vadose zone to the ground surface was calculated using the following equation:

$$D_{eff} = \frac{\theta_v^{3.33}}{\theta_T} D_{air} + \frac{1}{H} \frac{\theta_w^{3.33}}{\theta_T} D_w$$

Where:

D_{eff}	=	Effective diffusivity (cm ² /sec)
θ_v	=	Effective porosity (cm ³ -vapor/cm ³ -soil—"dimensionless")
θ_T	=	Total porosity (cm ³ /cm ³ -soil—"dimensionless")
D_{air}	=	Diffusivity in air (cm ² /sec)
θ_w	=	Porosity occupied by moisture (cm ³ -H ₂ O/cm ³ -soil—"dimensionless")
D_w	=	Diffusivity in water (cm ² /sec)

This equation assumes that no loss of chemical occurs due to biodegradation or any other factors. Porosity values were assumed to be specific to sand, based on boring logs from the Site; values utilized were taken from the Johnson and Ettinger Model for Subsurface Vapor Intrusion into Buildings (1991). The effective porosity, θ_v , was calculated from the following equation:

$$\theta_v = \theta_T - \theta_r$$

Where:

θ_r = Residual water porosity (cm³-H₂O/cm³-soil)

The chemical specific parameters, diffusivity in air and diffusivity in water were taken from the USEPA Water9 Model (USEPA, 2004). Once the effective diffusivity was determined, the vapor flux from the diffusing subsurface vapors was then calculated utilizing the following equation:

$$F = D_{eff} \frac{C_{v,eq}}{d}$$

Where:

- F = Vapor flux (mg/cm^2 -sec)
- d = Distance below ground surface to top of hydrocarbon vapor source (m)

The distance below ground surface to the top of the hydrocarbon vapor source was assumed to be 2 meters based on the shallowest depth to impacted groundwater at the Site. Once the vapor flux was determined, a conservative concentration of each VOC in outdoor air was calculated using the following equation:

$$C_{outdoor} = \frac{FL}{U_w \delta}$$

Where:

- $C_{outdoor}$ = Outdoor concentration of respective hydrocarbon (mg/m^3)
- L = Length of downwind vapor emissions source area (m)
- U_w = Wind speed (m/sec)
- δ = Height of breathing zone (m)

This equation assumes a steady, well-mixed, atmospheric dispersion of vapors within the breathing zone, or a "Box Model" as outlined within the ASTM Standard. The length of the downwind vapor emissions source area was assumed to be 30 meters based on the Site-specific length of the source; the height of the breathing zone was assumed to be 2 meters based on an approximate height of a human; and the wind speed was assumed to be 4.83 meters per second based on the average wind speed for Zone 7 (Cleveland, OH) presented in the RAIS PRG Calculator for volatilization and particulate inhalation pathways.

Table 6 provides a summary of the calculations for the outdoor air concentrations. These outdoor air concentrations were used as the exposure point concentrations in the risk characterization for the recreational user outdoor air exposure pathway.

4.0 EXPOSURE ASSESSMENT

This section provides an evaluation of the potential exposure pathways that are applicable to each area of the Site. According to the USEPA (USEPA, 1989), an exposure pathway generally consists of four elements: 1) a source and mechanism of constituent release; 2) an exposure medium (e.g. soil, groundwater, etc.); 3) a point of potential contact for the receptor to the exposure medium; and 4) an exposure route at the point of contact (e.g. ingestion, dermal contact, inhalation, etc.). An exposure pathway is considered complete only if all four of these elements are present.

This section presents an evaluation of the potential exposure pathways on the Site based on the presence, location(s), depth and matrix of the COPCs, the known or reasonably anticipated potential for human receptors to contact the COPCs considering any physical or institutional barriers to exposure, and an evaluation of potential exposure route(s) at the point of contact. The discussion of each area of the Site concludes with a summary of the potentially complete exposure pathways that will be evaluated in the risk assessment. The Conceptual Site Exposure Model (CSEM) is provided on **Figure 6**.

4.1 POTENTIAL RECEPTORS

The Former GAF Building Materials Site is currently abandoned and fenced. The buildings have been razed and the concrete slabs and foundations have been removed. The perimeter of the Site contains a seawall constructed of various types of rock, construction rubble, concrete and asphalt. Along some portions of the shoreline, various roofing materials are exposed along with solidified/weathered tar boils.

The only potential current receptor would be a trespasser that may infrequently visit the Site. Given the potential future uses of the Site, potential human receptors will be considered in the risk assessment. Potential future receptors include a construction worker engaged in the redevelopment of the Site, residents living on the redeveloped Site, people engaged in recreational activities in the currently anticipated public park area and near shore Bay, and commercial workers in future commercial establishments. Each of these potential exposure scenarios are summarized below.

It is highly unlikely that a trespasser could be on the Site with any regular frequency given the fact that the Site is well fenced. Any entry would require breaching or scaling the fence. Conservatively, a hypothetical trespasser is assumed to be present on the Site no more than six days per year, less than two hours per event. Furthermore, a trespasser is not likely to be on the Site for more than six years during their teenage years. The Site is currently covered with either crushed concrete/asphalt, scrub vegetation, grass and some exposed soil. This is a temporary condition, as it is expected that the Site will be covered during 2013 in accordance with the Act 2 Cleanup Plan. Therefore, there is little potential for a trespasser to contact COPCs in soil or groundwater. As such, the trespasser pathway is considered incomplete and requires no further evaluation in the risk assessment.

The future construction worker receptor is assumed to be on-Site for a construction project lasting no more than one year. Under these circumstances, the construction workers would be assumed to be on-Site, eight hours per day for a total of 250 days, which is the entire duration of the construction work. Furthermore, the construction work is assumed to have no more than 40 days (two working months) with open excavations that may allow direct contact with subsurface soil, groundwater and NAPL. After 40 days, the project is assumed to consist of work within a building, which would preclude contact with subsurface soil, groundwater, and NAPL. During open excavation work, a construction worker could be exposed to subsurface soil and groundwater via direct contact, incidental ingestion or inhalation of VOCs or particulates. Subsequent to completion of the foundation work, a construction worker exposure scenario would be limited to inhalation of volatile organics and direct contact with surface soil.

The future residential receptor is assumed to be living on the Site year-round. Under this exposure scenario, residents would be assumed to be on the Site continuously for 350 days per year. In the absence of remedial measures, residents could be exposed to constituents in soil via direct contact (e.g. dermal contact and ingestion), or through volatilization and intrusion of vapors into residential structures.

The future recreational receptor would be expected to be on the Site infrequently and likely only in the warmer months of the year. Additionally, the recreational use of the Site would be assumed to result in receptors that are exposed up to four hours per day, no more than 40 days per year over a period of 30 years. In the absence of remedial measures, the recreational users could be exposed to constituents in soil via direct contact (e.g. dermal contact and

ingestion) and via inhalation of VOCs from soil sources. Additionally, the recreational users could be exposed to VOCs emanating from groundwater beneath the recreational areas of the Site. The recreational areas are currently expected to be located along the Bay. Subsequent to remediation, the recreational receptors could be exposed to VOCs emanating from soil and groundwater into outdoor air via the inhalation pathway.

The recreational receptor could also be expected to spend at least some time in contact with the water in the Bay. Assuming that the person would be wading or swimming, exposures would occur via dermal contact and incidental ingestion. It is assumed that a recreational user would spend no more than two hours per day on-Site in contact with the water at a frequency of 40 days per year, over a period of 30 years.

The commercial worker is assumed to be on the Site for eight hours per day, 250 days per year. The only area anticipated to be occupied by the commercial worker and not the resident is within the footprint of the NAPL area. This area was evaluated separately for vapor intrusion to the commercial worker. Because the other area(s) occupied by the commercial workers would also be occupied by the residents, the commercial worker was not evaluated in them. The exposure time and duration for the resident is much longer and will result in risks that are higher than those for the commercial worker. As such, any remediation, in dual-occupancy areas, that is protective of the resident will also be protective of the commercial worker.

4.2 EXPOSURE MEDIA

During the remedial investigation of the Site, samples were collected from soil, groundwater, NAPL, Bay sediment, and surface water. This section provides a summary of the samples collected and the relevance of each medium to the risk assessment.

4.2.1 Soil

Fifty-four soil samples were collected from soil borings and surface locations on the Site. Thirty of these samples were collected from surface soils, and the remaining 24 were collected from subsurface locations at depths between two and eight ft-bgs, which is above the saturated zone. The potential exposure pathways to surface and subsurface soil are discussed in the following subsections.

4.2.1.1 Surface Soil

4.2.1.1.1 Trespasser

As stated above, under current conditions, there is little chance that the trespasser could be exposed to surface soil. As such, the trespasser is not evaluated under current site conditions.

4.2.1.1.2 Construction Worker

The construction worker could be exposed to surface soil via direct contact, incidental ingestion and inhalation of VOCs and particulate matter. Given the nature of construction work, it has been assumed that these pathways would be complete throughout the duration of the construction project; however, the pathway is only evaluated quantitatively in the excavation scenario, where the workers would also be exposed to subsurface soil.

4.2.1.1.3 Commercial Worker

Under future (post-development) conditions in the absence of remediation, the commercial worker would have little chance for contact with soil at the Site. The only complete exposure pathway to the commercial worker is vapor intrusion into a commercial establishment. For the purposes of this risk assessment, a standard commercial worker scenario was assumed, including a worker on the site for 250 days per year for eight hours per day over a duration of 25 years.

4.2.1.1.4 Resident

Under future (post-development) conditions, residents could be exposed to surface soil via direct contact, incidental ingestion, inhalation of VOCs, and inhalation of particulate matter. For the purposes of this risk assessment, the residential receptor is assumed to be present on the Site for approximately 350 days of the year for a duration of 30 years.

4.2.1.1.5 Recreational User

In the absence of remedial measures, the on-Site recreational users could be exposed to constituents in surface soil through direct contact (dermal contact and incidental ingestion). Additionally, the recreational users could be exposed to VOCs in surface soil via volatilization and inhalation. For the purposes of this risk assessment, the recreational user receptor is assumed to be present on the Site for approximately four hours per day for the incidental ingestion of soil, dermal contact with soil and inhalation of VOCs pathways.

4.2.1.2 Subsurface Soil

4.2.1.2.1 Trespasser

The trespasser has no complete exposure pathways to subsurface soil, nor is the inhalation of VOCs a significant pathway for this receptor. The indoor/outdoor air exposure pathway is discussed further in Section 4.2.4.

4.2.1.2.2 Construction Worker

The construction worker could be exposed to subsurface soil via direct contact, incidental ingestion and inhalation of VOCs and particulate matter. As stated in Section 4.1, this risk assessment assumes that the construction worker could only be exposed to subsurface soil during active excavation and foundation work, which is assumed to be no more than 40 days in a one-year construction project. The remainder of the construction project would likely involve work after installation of the footers and floors, and would provide very little chance for exposure to subsurface soil.

4.2.1.2.3 Commercial Worker

The commercial worker has no complete exposure pathways to subsurface soil. The commercial worker is evaluated for indoor air intrusion from subsurface soil sources. The indoor/outdoor air exposure pathway is discussed further in Section 4.2.4.

4.2.1.2.4 Resident

The resident has no direct contact exposure pathways to subsurface soil. Subsurface soil could, however, contribute to VOCs in indoor air. The indoor air exposure pathway is discussed further in Section 4.2.4.

4.2.1.2.5 Recreational Use

The recreational user has no complete direct contact exposure pathways to subsurface soil. However, the recreational user could be exposed to VOCs emanating from subsurface soil via the inhalation pathway. The outdoor air exposure pathway is discussed further in Section 4.2.4.

4.2.2 Groundwater

Thirty two groundwater samples collected from on-Site monitoring wells will be used in the risk assessment for Site. Groundwater on the Site is not currently used or planned for use. Furthermore, the City of Erie has an ordinance prohibiting the use of groundwater in the City.

As a result, the only potential exposure to groundwater is via vapor intrusion into residential and commercial structures on the Site, to a construction worker engaged in excavation activities, and to the recreational users via inhalation of VOCs in outdoor air. The indoor and outdoor air exposure pathways are discussed further in Section 4.2.4.

4.2.3 NAPL

As mentioned in Section 2.3, NAPL is present in one area of the Site and two NAPL samples were collected and analyzed. It is unlikely that there is a potential for exposure to NAPL on the Site via direct contact or incidental ingestion. The NAPL exists several feet below the surface of the groundwater. The groundwater in the area of the NAPL is approximately 4-5 ft-bgs. Given that any construction on the Site is likely to be slab-on-grade, it is not likely that excavation into the NAPL would occur. It is anticipated that caissons would be used on the Site to support any large buildings. In that case, the caissons would be installed by construction workers properly trained to work with hazardous materials under a health and safety plan. The resident, recreational user, commercial worker, and hypothetical trespasser could only be exposed to NAPL via inhalation of VOCs migrating through the overlying groundwater, the soil column, and then to the indoor or outdoor air. Therefore, the overlying groundwater is the medium from which the VOCs exposures have been modeled. The indoor/outdoor air exposure pathway is discussed further in Section 4.2.4.

4.2.4 Indoor/Outdoor Air

All of the potential receptors could be exposed to VOCs migrating to indoor and/or outdoor air from at least one of the potential sources (soil, groundwater, and NAPL). The VOCs contained in soil and groundwater could volatilize from these media and migrate in soil gas toward the surface. VOCs could then be transferred from soil gas to ambient air via vapor intrusion into indoor air or mixing with outdoor air. It is not likely that VOCs could volatilize directly from the NAPL because groundwater overlies it. As such, the constituents in the NAPL would need to dissolve into the groundwater before volatilizing into the soil gas, and the groundwater is the medium that requires evaluation in the indoor and outdoor air models.

4.2.5 Surface Water

The future recreational user of the Site could be exposed to surface water through recreational activities such as wading, swimming, fishing, etc. The COPCs in surface water were derived

from the modeling of groundwater to surface water presented in Section 3.3 of this document. Exposures to the COPCs would be via direct contact and incidental ingestion of surface water.

4.3 EXPOSURE PARAMETERS FOR COMPLETE EXPOSURE PATHWAYS

This section provides the exposure parameters for quantitative evaluation of complete exposure pathways at the Site. The exposure parameters include exposure time, duration of exposure, pertinent contact parameters (e.g. skin surface area, ingestion and inhalation rates, body weight, etc.), Site physical parameters (e.g. hypothetical building dimensions, air exchange rates, soil properties, etc.). Each of these parameters is conservatively estimated based on the actual conditions present on the Site. The following subsections provide the exposure parameters for each potential exposure medium. A summary of the values used in the exposure calculations is provided in **Appendix B**.

4.3.1 Soil Direct Contact

4.3.1.1 Surface Soil

Complete direct contact exposure pathways to surface soil are present on the Site for the future construction worker, the future recreational user, and the future resident. It is unlikely that a trespasser could be exposed to surface soil on the Site. Relevant exposure pathways to surface soil include dermal contact with soil, incidental ingestion of soil and inhalation of particulate matter from soil. The values used for each of the exposure factors relevant to surface soil are provided in **Appendix B**. Inhalation of VOCs is described in Section 4.3.4 below.

4.3.1.2 Subsurface Soil

Complete direct exposure pathways to subsurface soil are present on the Site only for the construction worker during the excavation phase of a construction project. Direct contact exposure pathways to subsurface soil for the future resident, the future recreational user, and the trespasser are not complete. Residents are not expected to excavate on the Site and therefore will not be exposed to subsurface soils. Relevant exposure pathways to subsurface soil for the construction worker include dermal contact with soil, incidental ingestion of soil and inhalation of particulate matter from soil. The exposure duration to subsurface soil for the construction worker is limited to 40 days, which is the anticipated number of days for excavation work in a typical 1-year construction project. The values used for each of the exposure factors

relevant to subsurface soil are provided in **Appendix B**. Inhalation of VOCs is described in Section 4.3.4 below.

4.3.2 Groundwater

The groundwater on the Site is not currently used, and a City of Erie ordinance prohibits future use. Complete exposure pathways to groundwater do not exist on the Site, except for potential contact by a Site construction worker and the potential for emissions of VOCs to indoor and outdoor air. The groundwater contact pathway is addressed in the RAIS PRG calculation spreadsheets for the construction worker. The inhalation of VOCs in air pathway is addressed quantitatively using the Johnson & Ettinger Model for indoor air and the equations presented in ASTM Designation E-1739-95 for outdoor air (Section 4.2.4 above).

4.3.3 NAPL

Potentially complete exposure pathways to NAPL are present on the Site only for the construction worker during the excavation phase of a construction project. Exposure pathways to NAPL for the resident, recreational user, and trespasser are not complete. Relevant exposure pathways to NAPL for the construction worker include dermal contact, incidental ingestion, and inhalation of VOCs. The exposure duration to subsurface soil for the construction worker is limited to 40 days, which is the estimated time that a 1-year construction project would involve work in an open excavation. The values used for each of the exposure factors relevant to subsurface soil are provided in **Appendix B**. Inhalation of VOCs is described in Section 4.3.4 below.

4.3.4 Air

4.3.4.1 Indoor

Potentially complete exposure pathways to VOCs in indoor air exist for the future resident, the future commercial worker, and the future construction worker. The frequency and duration of exposures to VOCs in indoor air for the resident are assumed to be consistent with a standard residential exposure scenario, which consists of exposures 350 days per year, over a 30-year period. Those for the commercial worker are consistent with a standard workplace exposure scenario of eight hours per day, 250 days per year, over a 25 year period. The construction worker would be exposed for a total of eight hours per day, 250 days per year, over a one-year time period.

4.3.4.2 Outdoor

Potentially complete exposure pathways to VOCs in outdoor air exist for the future construction worker and the future recreational user. The frequency and duration of exposures to the future construction worker would be 40 days per year for a one-year construction project, assuming that the project would have workers in open excavations for no more than 40 days.

4.3.5 Surface Water

Potentially complete exposure pathways exist to constituents in surface water in the Bay for the recreational user via direct contact and incidental ingestion. The frequency and duration of exposures to the recreational receptor assume that the person would be wading/swimming no more than two hours per day, 40 days per year, for no more than 30 years.

4.4 EXPOSURE POINT CONCENTRATIONS

In order to calculate risks and HI's, the exposure point concentrations of the COPCs in soil were calculated using the USEPA ProUCL program (Version 4.1). Input files to the ProUCL program were constructed from the analytical database and the concentrations were flagged with regard to whether or not the concentration used represented a detection or a detection limit. The ProUCL program then calculates statistical representors of the mean of the data set and recommends which statistical method should be used. The ProUCL input and output files are provided in **Appendix C**. Exposure point concentrations in groundwater were not necessary; however, where modeling from groundwater sources was performed, the concentration used was the highest concentration detected in the area of interest. Exposure point concentrations in surface water were the modeled concentrations from the applicable source. Exposure point concentrations in air were the modeled concentrations from the nearest source within the area being evaluated. The exposure point concentrations used in risk characterization are referred to as "representative concentrations" shown on **Table 7**.

5.0 TOXICITY ASSESSMENT

The risk assessment utilizes the toxicological data published in the ORNL RAIS database. In cases where the COPCs are considered to have only carcinogenic or non-carcinogenic effects, only carcinogenic or non-carcinogenic endpoints are calculated as appropriate. In cases where compounds have both carcinogenic and non-carcinogenic endpoints, both endpoints are calculated and summed into the overall risks or HI's.

Some of the toxicological values used by the RAIS database are slightly different than those provided by PADEP in 25 PA Code Chapter 250, **Appendix A**, Tables 5a and 5b. The RAIS database uses the most current IRIS values, which, for the purpose of a site-specific risk assessment, are appropriate for use in lieu of the published PADEP values. The toxicity values used in the risk assessment are provided in the RAIS output sheets in **Appendix B**.

6.0 RISK CHARACTERIZATION

This section provides a summary of the calculated cancer risks and non-cancer HIs for each receptor present and each complete exposure pathway on the Site. The results of the risk assessment for each exposure scenario on the Site are summarized below and on **Table 7**.

6.1 FUTURE RESIDENT

The future resident was evaluated for exposures on the Site using the standard residential exposure scenario of 350 days per year for 30 years. The actual exposure time for soil pathways may be more limited due to the ground being frozen during a portion of the year. The resident could potentially be exposed to constituents in surface soil and to volatiles in indoor air. Based on the potentially complete exposure pathways, the summed HI for the future resident in the absence of remediation is 17.75, and the lifetime excess cancer risk is 2.1×10^{-2} . These results exceed the acceptable ranges of HI less than 1.0 and lifetime excess cancer risks less than 1×10^{-4} provided as a guideline by the PADEP for a Site-Specific Standard. The indoor air exposure pathway contributes a total HI of 15.7 and a total risk of 4.1×10^{-6} to the overall summed HI and risks. Napthalene is by far the driver of the risk, accounting for 16.6 of the Total HI of 17.75.

6.2 FUTURE COMMERCIAL WORKER

The future commercial worker inside of the NAPL Area was evaluated for exposures on the Site using the standard commercial worker exposure scenario of 250 days per year for 25 years. The actual exposure time for soil pathways may be more limited due to the ground being frozen during a portion of the year. The commercial worker could potentially be exposed to volatiles in indoor air. Based on the potentially complete exposure pathways, the summed HI for the future commercial worker in the absence of mitigating measures such as a slab-on-grade parking garage and vapor barriers is 47.97 and the lifetime excess cancer risk is 5.8×10^{-5} . These results exceed the acceptable range of HI less than 1.0 provided as a guideline by the PADEP for a Site Specific Standard. The indoor air exposure pathway contributes all of the risks and hazard indices because it was the only potentially complete exposure pathway. Again, napthalene is the driver, accounting for 47.3 of the HI total of 47.97.

6.3 CONSTRUCTION (EXCAVATION) WORKER

The construction worker was evaluated under a work scenario that may be encountered in a typical one-year construction project. The scenario includes an excavation worker working in surface/subsurface soil at the Site to install footers and floor slabs. Because the construction worker is assumed to work in the excavation for 40 days in a one-year project, non-excavation exposures are limited to 210 days for the duration of the project.

The summed lifetime excess cancer risks for the construction worker throughout the project are estimated to be 6.3×10^{-5} . The summed HI for the duration of the construction work is estimated to be 3.05. The excess lifetime cancer risk and the HI both slightly exceed the benchmarks of 1×10^{-4} and 1.0, respectively. Close evaluation of the HI for the construction worker indicates that the summed HI for excavation worker exposure is driven primarily by naphthalene in the soil contact pathway, which contributes 2.6 to the overall HI of 3.05. The results indicate that the HI exceeds the benchmark of 1.0 for an unprotected construction worker contacting the soil during the construction project. The contact with groundwater pathway meets the HI and cancer risk benchmarks set by the PADEP.

6.4 RECREATOR

The recreational user of the Site was evaluated using an exposure scenario of 40 days per year for 30 years. The recreational user could potentially be exposed to volatiles in outdoor air, surface soil and surface water in the Bay. Based on the potentially complete exposure pathways, the summed HI for the recreational user in the absence of mitigating measures such as a soil cover is 0.11, and the lifetime excess cancer risk is 2.5×10^{-3} . The HI meets the acceptable value of HI less than 1.0 provided as a guideline by the PADEP for a Site Specific Standard. The cancer risk results exceed the acceptable cancer risk benchmark of 1×10^{-4} , driven entirely by exposure to surface soil in the absence of remedial measures. The inhalation pathway contributed no more than 6.6×10^{-8} to the overall risks for the recreator.

7.0 UNCERTAINTY ANALYSIS

Uncertainties are inherent in every aspect of a quantitative risk assessment. The inclusion of Site-specific factors reduces, but cannot eliminate uncertainty. As a result, where uncertainty cannot be eliminated, the risk assessment is designed to err on the side of conservatism. The uncertainty analysis provides a context for understanding the uncertainties in the risk assessment and provides a foundation for risk management decisions. The major sources of uncertainty identified in this risk assessment are provided below.

7.1 UNCERTAINTIES IN THE DATA SET

The data set used for the risk assessment ranges from one to seven years old. While the concentrations observed in both soil and groundwater samples were considered accurate at the time the samples were collected, no allowances were made for constituent degradation, or depletion through time. Given that the historical spill sources have ceased, it is likely that the mass of constituents on the Site is lower than was present at the time the remedial investigation was performed. Because the use of older data is more likely to overestimate risks than underestimate them, the use of the older data in the risk assessment is considered to be conservative.

7.2 UNCERTAINTIES IN IDENTIFICATION OF COPCS

The selection of COPCs in Site media for the future resident and the future construction worker compared the USEPA Region 3 RSLs for residential settings to the concentrations of the compounds detected on the Site. Because the Region 3 RSLs are driven by a residential exposure scenario, the screening may be overly conservative, leading to inclusion of constituents in the quantitative risk assessment that would not likely drive unacceptable risks to a construction worker on the Site. Inclusion of unnecessary constituents may artificially elevate summed risks and HIs in the risk characterization; however, because no other screening criteria are available for these receptors, the COPCs identified were used in the quantitative risk assessment.

7.3 UNCERTAINTIES IN THE RISK CHARACTERIZATION

The typical approach for estimating exposure point concentrations in a risk assessment is to calculate an upper bound estimate of the mean (95% Upper Confidence Limit) of the entire data set. This approach likely overestimates the actual risks on the Site for reasons such as directed

sampling versus the underlying assumption in the 95% UCL calculation that sampling is random. Given the large data set for this Site, the arithmetic mean is more likely to approximate actual exposure conditions. As a result, the actual risks for the Site are likely lower than those calculated since the receptors are not likely to be exposed to concentrations as high as the 95% UCL.

The underlying assumptions for the models used to estimate constituent concentrations in air and surface water can be a source of considerable uncertainty. In general, the model assumptions err on the side of conservatism in order to ensure that potential risks to human health are not underestimated. In particular, the models used (J&E, ASTM Outdoor Air Model and SWLOAD Model) assume an infinite source of constituents at a constant concentration. This approach does not account for depletion of the source, which would cause the predicted concentrations to diminish with time.

In addition to the inherent conservatism in the models, some of the input variables used are deliberately conservative. In the SWLOAD model, a dilution factor of 10 is used in the transfer of groundwater to the lake. Given the area of the Site compared to the area of the Bay, the dilution is likely to be significantly higher, which would result in significantly lower exposure concentrations. Finally, in the J&E Model, the building air exchange rates are set to 0.25 per hour in the residential structures and 1.0 per hour for the commercial structures. These rates are typically deliberately designed to be much higher in these types of buildings in order to adequately ventilate the building. These items are provided as examples; however, a number of other input factors into the models are selected in a similar manner, and are more conservative than in the actual migration scenario.

8.0 SUMMARY AND CONCLUSIONS

The risk assessment considered potential exposures of a future resident, a future commercial worker, a construction worker engaged in future excavation and construction work and a recreator. The exposures evaluated included those to surface and subsurface soil, groundwater, surface water and indoor/outdoor air for the applicable exposure routes (e.g. ingestion, dermal contact and inhalation) and receptors.

The risk calculations were made using the ORNL RAIS PRG calculator. Where applicable, the calculated risks and HIs were summed to provide the total theoretical excess lifetime cancer risks or non-carcinogenic HIs for Site receptors under very conservative exposure assumptions. The results of the risk assessment indicate that the risks and HIs exceed the PADEP benchmarks of cancer risks less than 1×10^{-4} and HIs of less than 1.0 for the future resident; the contribution of the indoor air pathway alone exceeds the PADEP benchmarks of 1×10^{-4} for cancer risks and 1.0 for the HI. The summed HI for the commercial worker exceeds the PADEP benchmark of 1.0 for the indoor air exposure pathway. The HI for the construction worker exceeded the PADEP benchmark for both HI and cancer risks. Evaluation of the HI for the construction worker revealed that naphthalene accounts for 2.6 of the HI total of 3.05. With respect to the recreator, the results of the risk assessment indicate that the HI does not exceed the PADEP benchmark of 1.0, but that the cancer risk does exceed the PADEP benchmark of 1×10^{-4} . The cancer risk result for the recreator is driven entirely by exposure to surface soil in the absence of any remedial measures.

A PNDI database search was requested for remediation activities that are expected to be completed following approval of this Risk Assessment and the associated Act 2 Cleanup Plan that includes construction of a seawall along the Bay. The results provided by the Pennsylvania Fish and Boat Commission indicate that "no adverse impacts are expected from the proposed project". As described in Section 2.4 and 3.4 the ecological portion of the risk assessment was limited to sediment in the Bay and groundwater discharges to the Bay because the upland area does not and will not present ecological habitat. The distribution and concentrations of constituents detected in sediment samples are generally consistent with data reported by PADEP from samples collected throughout the Bay. Furthermore, the sediment data from samples collected immediately adjacent to the Site are less than the relevant PECs published

by PADEP. Based on this further risk assessment or mitigation measures associated with this media is not required.

The evaluation of groundwater discharge to the Bay indicates that no COPCs will reach the Bay in concentrations exceeding applicable ecological or human health benchmarks (i.e., PADEP surface water standards). Therefore, no remedial action is necessary relative to diffuse groundwater discharge from the Site.

AMEC concludes that remedial actions will be necessary to mitigate the potential for future risks on the Site associated with Site-related COPCs in soil and NAPL. A Cleanup Plan has been prepared and submitted to PADEP that describes both engineering and institutional controls necessary to eliminate the potentially complete exposure pathways in the future.

9.0 REFERENCES

"Summary Report – Access Road Pre-Excavation Sampling", Environmental Remediation and Recovery, Inc., October 27, 2006 (ER&R, October 2006)

"Preliminary Soil and Ground Water Investigation Report", O'Brien & Gere, February 6, 2008 (O&G, February 2008)

"Phase I ESA" (MACTEC, 2008)

"Phase II Environmental Site Assessment, GAF Building Materials Corporation Site", MACTEC June 18, 2009 (MACTEC, June 2009)

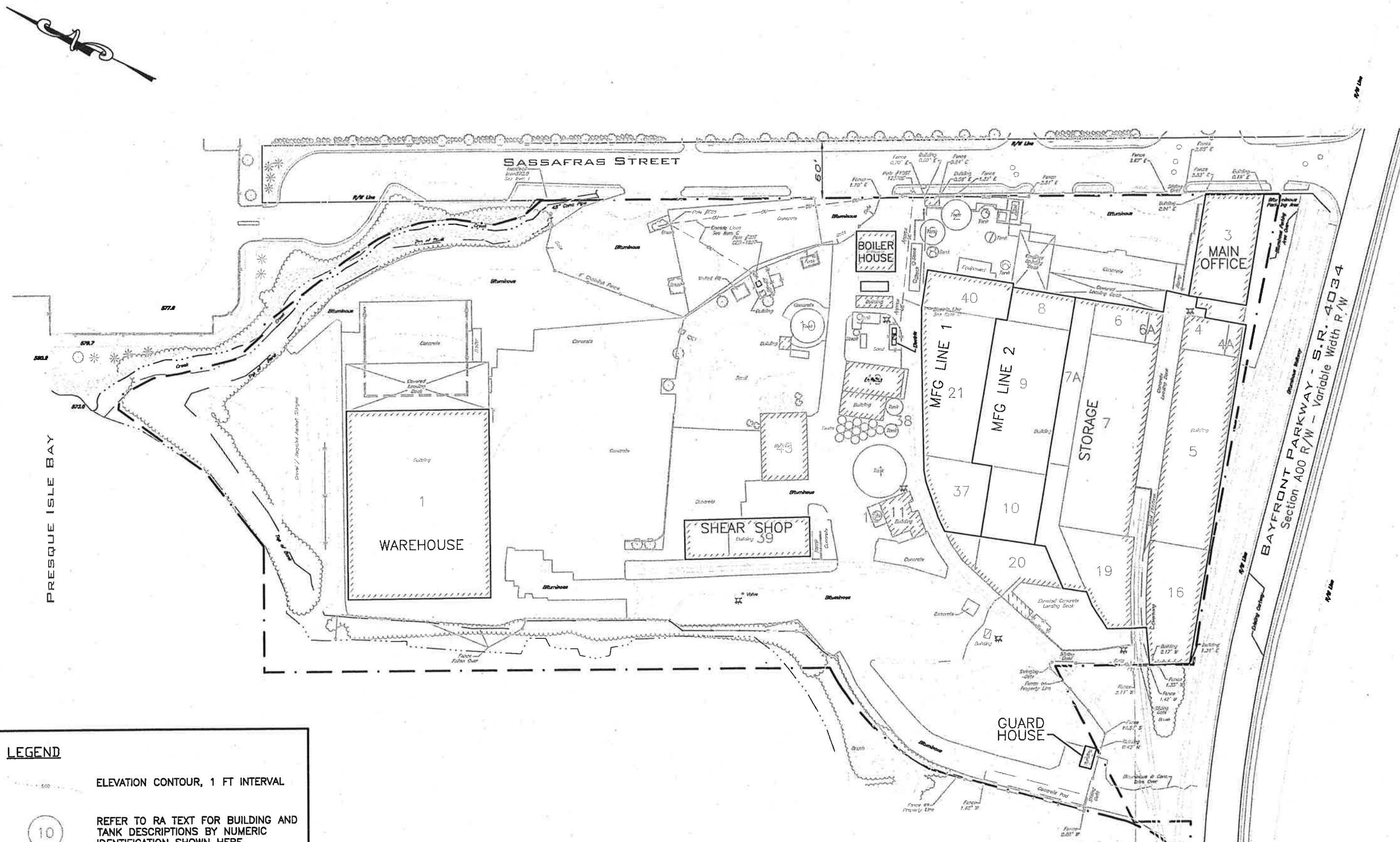
"Ground Water Sampling Event, July 2009", O'Brien & Gere, October 13, 2009 (O&G, October 2009)

"DNAPL Removal/Groundwater Elevation Measurement", O'Brien & Gere, August 9, 2010 (O&G, August 2010)

"Phase III Environmental Site Assessment Report – GAF Building Materials Corporation Site", MACTEC, February 11, 2011 (MACTEC, February 2011)

"Phase III ESA Supplemental Groundwater Sampling and Waste Disposal Documentation", MACTEC, April 12, 2011 (MACTEC, April 2011)

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LEGEND

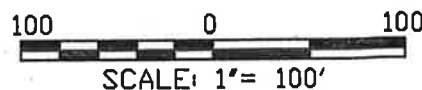
ELEVATION CONTOUR, 1 FT INTERVAL

REFER TO RA TEXT FOR BUILDING AND TANK DESCRIPTIONS BY NUMERIC IDENTIFICATION SHOWN HERE.

NOTES:

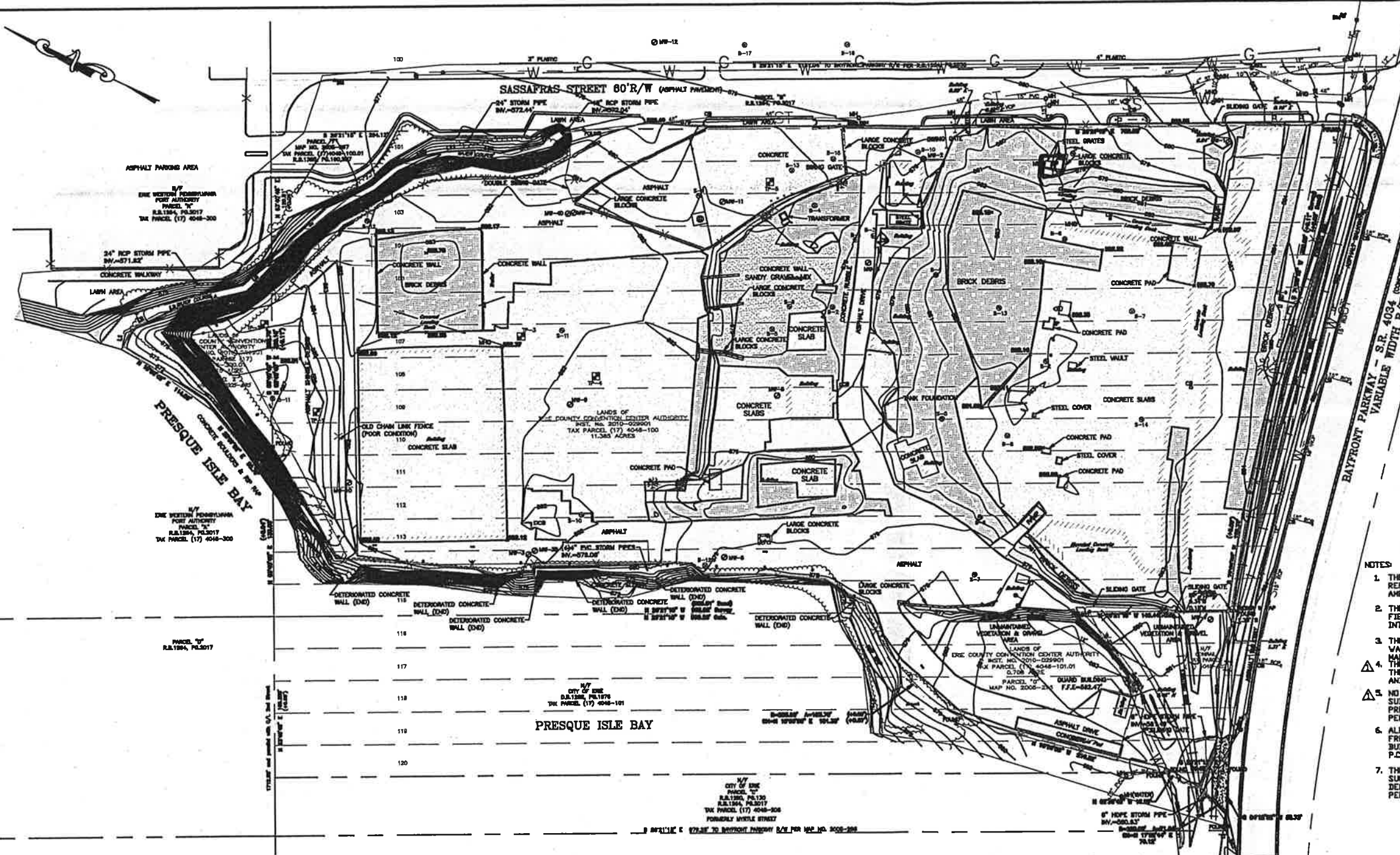
- 1. AS OF FALL 2010, ALL STRUCTURES AND TANKS DEMOLISHED EXCEPT FOR GUARD HOUSE AT BAYFRONT PARKWAY ENTRANCE. FLOOR SLABS AND FOUNDATIONS REMAIN.

Ref: Sanford Surveying & Engineering, P.C., f-base.dwg, revised 11-3-2010.



<p>Act 2 Risk Assessment Report Former GAF Site 218 Bayfront Parkway Erie, Pennsylvania Project No.: 3410110844</p>	 Environment & Infrastructure - Pittsburgh 800 North Bell Avenue Carnegie, Pennsylvania 15106 2200 Georgetown Drive Sewickley, Pennsylvania 15143	<p>Historical Site Plan Map (Pre-2010 Demolition) Figure: 2</p>	<p>2</p>
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- LEGEND**
- UTILITY POLE
 - ⊙ UTILITY POLE ANCHOR
 - ⊙ LIGHT POLE
 - OVERHEAD ELECTRIC
 - UNDERGROUND ELECTRIC
 - EXISTING FENCE
 - ⊙ HYDRANT
 - ⊙ VALVE
 - WATERLINE
 - ⊙ EXISTING MANHOLE
 - SANITARY SEWER
 - ⊙ EXISTING CATCH BASIN
 - ⊙ GAS WELL (APPARENT)
 - GAS LINE
 - SUBJECT PROPERTY LINE
 - PROPERTY LINE
 - STREAM / WATER EDGE
 - STORM SEWER
 - ⊙ EXISTING SPOT ELEVATION
 - ⊙ ISP FOUND
 - ⊙ PROPERTY CORNER
 - ⊙ REBAR WITH CAP
 - ⊙ SIGNAL POLE
 - ⊙ BENCHMARK
 - ⊙ EXISTING TREE
 - ⊙ EDGE OF WOODED AREA
 - EXISTING CONTOURS
 - ⊙ EXISTING SIGN
 - ⊙ MONITORING WELL LOCATION
 - ⊙ SOIL BORING
 - ⊙ TEST PIT
 - ⊙ BORING LOCATION
 - BRICK DEBRIS
 - CONCRETE SLAB
 - ASPHALT PAVEMENT

- NOTES**
1. THE PROPERTY BOUNDARY INFORMATION SHOWN (E.G. DISTANCES AND BEARINGS) ON THIS DRAWING WERE REPRODUCED FROM A ALTA/ACSN LAND TITLE SURVEY FOR BUILDING MATERIALS CORPORATION OF AMERICA PREPARED BY SANFORD SURVEYING & ENGINEERING, P.C., DATED 12/4/2008.
 2. THE EXISTING CONTOURS AND PHYSICAL FEATURES SHOWN ON THIS DRAWING WERE DETERMINED IN THE FIELD BY PORTER CONSULTING ENGINEERS, P.C./PCE. THE ELEVATIONS SHOWN ARE BASED ON INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD85).
 3. THE ENTIRE PARCEL SUBJECT OF THIS LAND DEVELOPMENT IS LOCATED WITHIN THE WATERFRONT COMMERCIAL (WC) ZONING DISTRICT AS SHOWN ON THE CITY OF ERIE ZONING MAP.
 4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITY LINE LOCATIONS. THE UTILITY LINE LOCATIONS SHOWN ON THIS PLAN WERE OBSERVED FROM FIELD EVIDENCE AND INFORMATION PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE.
 5. NO SUBSURFACE UTILITY LOCATIONS WERE DETERMINED BY PORTER CONSULTING ENGINEERS, P.C. THE SUBSURFACE UTILITIES SHOWN ON THIS PLAN ARE BASED ON VISIBLE HARDWARE AND INFORMATION PROVIDED BY UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL PERTINENT UTILITIES LOCATED PRIOR TO BEGINNING CONSTRUCTION.
 6. ALL MONITORING WELLS, SOIL BORING, TEST PIT, AND BORING LOCATIONS SHOWN WERE REPRODUCED FROM A PLAN TITLED "AS-BUILT LOCATIONS OF MONITORING WELLS, SOIL BORINGS & TEST PITS FOR BUILDING MATERIAL CORPORATION OF AMERICA" PREPARED BY SANFORD SURVEYING & ENGINEERING, P.C., DATED 06/04/2009, REVISED 12/08/2010.
 7. THE CONCRETE SLABS AND FOUNDATIONS SHOWN REPRESENT ONLY WHAT IS VISIBLE ON THE SURFACE. ADDITIONAL FOUNDATIONS, SLABS, AND OTHER STRUCTURES MAY BE LOCATED BENEATH THE DEMOLITION DEBRIS LOCATED THROUGHOUT THE SITE. NO SUBSURFACE INVESTIGATIONS WERE PERFORMED BY PCE TO IDENTIFY BURIED STRUCTURES.

EXISTING CONDITIONS PLAN

PROPERTY LINE TABLE

LINE	BEARING	DISTANCE
L1	N 70°08'12" E	14.68'
L2	S 53°30'37" E	40.54'
L3	S 35°05'09" E	28.20'
L4	S 40°44'07" E	59.80'
L5	S 68°01'36" E	38.49'
L6	N 63°40'45" E	9.44'
L7	S 64°16'04" E	108.47'
L8	S 59°26'47" E	42.37'
L9	S 51°32'32" E	24.01'
L10	S 43°12'40" E	25.63'
L11	S 32°16'04" E	33.13'
L12	S 18°01'02" E	44.43'
L13	S 42°08'20" E	32.32'
L14	S 67°28'49" E	25.00'

ZONING INFORMATION
 ZONING AUTHORITY: CITY OF ERIE
 ZONING DISTRICT: WATERFRONT COMMERCIAL DISTRICT (WC)
 MINIMUM LOT SIZE/AREA PER FAMILY= 1,000 SQ.FT.
 MAXIMUM LOT COVERAGE = 35%
 EXCLUSIVE OF ROOFLESS DECKS IN GROUND POOLS & ROOFLESS WALKWAYS

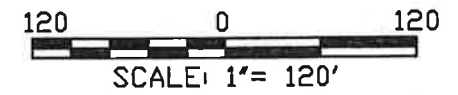
BUILDING SETBACKS:
 MINIMUM DEPTH OF FRONT YARD SETBACK:
 MINIMUM DISTANCE BETWEEN ANY STREET PROPERTY LINE AND ANY GARAGE DOORS FACING THE SAME SHALL BE 20 FEET WITH A CLEAR UNOBSTRUCTED TRIANGLE AREA EXTENDING 3 FEET ON EITHER SIDE OF THE GARAGE DOOR AT THE STREET PROPERTY LINE AND 5 FEET DEEP.
 MINIMUM WIDTH REAR YARD SETBACK: N/A
 MINIMUM WIDTH SIDE YARD SETBACK: N/A
 MINIMUM WIDTH LEAST SIDE YARD SETBACK: N/A
 MAXIMUM HEIGHT IF STRUCTURE: 50 FEET

APPURTENANCES TO BUILDINGS, CHIMNEYS, STACKS, ELEVATOR BULKHEADS, PENTHOUSES, GAS OR WATER TOWERS, COOLING TOWERS, STAGE TOWERS OR SCENERY LOFTS, ELECTRIC SIGNS, WIRELESS TOWERS, AND OTHER NECESSARY MECHANICAL APPURTENANCES, WHERE PERMITTED BY BUILDING CODE AND USE REGULATIONS, AND ERRECTED UPON AND AS AN INTEGRAL PART OF THE BUILDING, OR A MONUMENT, SHAFT, SPIRE, DOME, TOWER, IF ERRECTED FOR ORNAMENTAL PURPOSES ONLY, MAY BE ERRECTED OR EXTEND ABOVE THE HEIGHT LIMIT OF THE DISTRICT, PROVIDED THAT ANY SUCH STRUCTURE SHALL SET BACK FROM THE VERTICAL PLANE OF THE PERMITTED BUILDING LINE ONE (1) FOOT HORIZONTALLY FOR EACH TWO (2) FEET OF EXTRA HEIGHT.

MAXIMUM No. OF STORIES: N/A

PROPERTY ADDRESS:
 216 BAYFRONT PARKWAY
 ERIE, PA 16507

CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL
 POC'S SERIAL NUMBER
20112852569
 1-800-242-1778

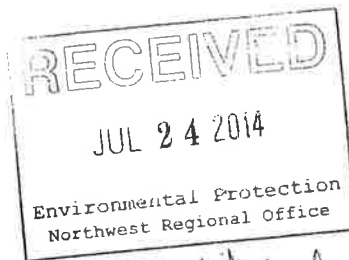


Ref: PC Engineers, E12510-1116-M(Rv1-EM1),
 October 2012.

Act 2 Risk Assessment Report
 Former GAF Site
 218 Bayfront Parkway
 Erie, Pennsylvania
 Project No.: 3410110844

amec
 Environment & Infrastructure - Pittsburgh
 800 North Bell Avenue
 Carnegie, Pennsylvania 15106
 2200 Georgetown Drive
 Sewickley, Pennsylvania 15143

Existing Conditions Site Plan
 Figure: 3



*Rec'd additional
info 8-7-14 -kt*

FINAL REPORT

· Former GAF Building Materials Site
Erie, Pennsylvania

Prepared for:

Erie County Convention Center Authority
Erie, Pennsylvania

Prepared by:

AMEC Environment & Infrastructure, Inc.
800 N. Bell Avenue, Suite 200
Pittsburgh, Pennsylvania 15106
(412) 279-6661

July 2014

Project No. 3410110844



FINAL REPORT

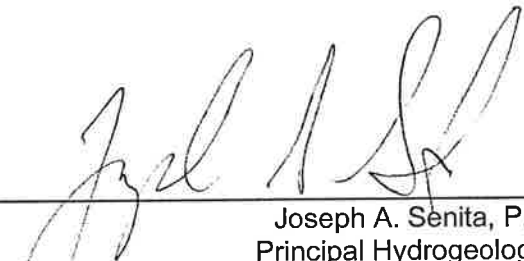
Former GAF Building Materials Site
Erie, Pennsylvania

July 2014


Project No. 3410110844

This report was prepared by the staff of AMEC Environment & Infrastructure, Inc. under the supervision of whose signature(s) appear hereon.





Joseph A. Senita, P.G.
Principal Hydrogeologist



Daniel Forlastro, P.E.
Principal Engineer

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1.0 INTRODUCTION

AMEC Environment & Infrastructure, Inc. (AMEC) has prepared this Final Report on behalf of the Erie County Convention Center Authority (ECCCA) for remediation of the former GAF Building Materials Manufacturing Corporation (GAF) facility, currently known as Bayfront Place, located at 218 West Bayfront Parkway, in the City of Erie, Erie County, Pennsylvania (Site). **Figure 1** shows the location of the Site on the US Geological Survey (USGS) Erie North, PA 7.5-minute topographic quadrangle map. The Pre-Remediation Site Plan (circa 2009) is shown on **Figure 2** and the current Post Remediation Site Plan is shown on **Figure 3**.

This Final Report has been prepared in accordance with the Pennsylvania Department of Environmental Protection (PADEP) Land Recycling and Environmental Remediation Standards Act of 1995 (Act 2); the Act 2 regulations located at 25 PA Code Chapter 250; and the associated Technical Guidance Manual (TGM). Proof of the required municipal and public notifications is provided in **Appendix A**.

In accordance with the regulations, ECCCA submitted a Notice of Intent to Remediate (NIR) the Site under the Site Specific Standard (SSS) to PADEP on December 13, 2010 and made the appropriate public notifications. PADEP has assigned the following identifiers: eFACTS PF No. 625516 and EFACTS Activity No. 41999. The following Act 2 documentation has been submitted to and approved by PADEP:

- Remedial Investigation Report (RIR) was submitted on October 18, 2011 and approved on January 10, 2012.
- Site-Specific Human Health Risk Assessment Report (RA) was submitted on June 18, 2012, revised February 11, 2013 and April 1, 2013 and approved on April 2, 2013.
- Cleanup Plan was submitted on July 6, 2012, revised April 1, 2013 and approved on April 5, 2013.

Copies of the NIR and PADEP approval letters are provided in **Appendix A**.

This Final Report describes the activities completed at the Site to meet the goals identified in the Cleanup Plan and demonstrate attainment with the SSS. Following PADEP approval of this Final Report, an Environmental Covenant (EC) will be executed with PADEP and recorded with

the deed. The Activity and Use Limitations (AUL) and Compliance Reporting requirements to be included with the EC are presented in Section 5.0 - Post Remediation Care Plan.

The remediation was accomplished pursuant to a project undertaken by the ECCCA, which was referred to as the “Former GAF Building Material Site Concept Planning and Remediation Services Project”. In the initial step towards remediation, the ECCCA commissioned the development of a Concept Plan to detail possible future Site use, which was needed to form the basis of the Act 2 Cleanup process. One of the key goals of the Concept Plan was to guide remediation by identifying the best uses for the Site that are compatible with the surrounding area, complement the Bayfront Convention Center (adjacent to the Site to the east), and generate revenue for local governments. Concept planning work was completed between September 2011 and April 2012. The Concept Plan recommended that the Site contain a mixture of residential, recreational and commercial uses. Therefore, the Act 2 documentation prepared to demonstrate attainment with the SSS has considered these potential future receptors as well as future construction workers.

The pre-remediation site history and description is summarized below followed by summaries of the previous Act 2 submittals. The remainder of this report follows the suggested format provided in the Act 2 TGM for demonstrating attainment with the SSS.

1.1 PRE REMEDIATION SITE DESCRIPTION

The 12.5-acre Site is located on the southern shore of Presque Isle Bay (**Figure 1**). From approximately 1903 to 2007, the former GAF facility manufactured roll roofing material and asphalt shingles. Historically, approximately 10 acres of the Site were occupied by buildings, tanks, aboveground pipe runs, and roadways necessary for the on-site manufacturing activities (**Figure 2**).

The remaining approximate 2.5 acres contained scrub vegetation, primarily along the Bay shoreline that formed the northern and western site boundary and the Sassafra Street storm water drainage ditch that formed the north eastern property boundary. The Bay shoreline was armored with large misshapen concrete slabs and rubble on the northern side and a concrete “seawall” on the western side that was in various stages of disrepair. The storm water drainage ditch conveyed storm water discharge from the City of Erie storm sewer system with connections beneath Sassafra Street to the Bay (**Figure 2**).

By late October 2010, GAF had demolished and removed structures, tanks, and equipment, such that what remained at the Site were roadways, floor slabs, and foundations along with a the guard shack and electrical transformer. The October 2011 pre-remediation conditions Site plan is included as **Appendix B**.

Land use in the vicinity of the Site is urban. The Site is bounded to the north and west by Presque Isle Bay (Bay), to the south by an inactive CSX rail line and the Bayfront Parkway, and to the east by Sassafras Street and the Bayfront Convention Center. To the south west is the City of Erie Water Works, followed by marinas. South of Bayfront Parkway is a bluff on top of which is an urban residential area. In 2013, ECCCA acquired the CSX property and is remediating that Site in accordance with the Act 2, separately from the GAF Site that is the subject of this Final Report.

The current configuration of the Site was created by successively placing fill northward into the Bay over approximately 100 years. The fill used to create additional property contains various materials, including soil, construction debris, tar, waste tarpaper, and shingle trimmings. The pre-remediation ground surface at the Site was relatively flat with an average elevation of approximately 580 feet above mean sea level (ft-amsl). A knoll at the northern end of the Site was approximately 588 ft-amsl.

The fill overlies shale bedrock that is encountered at depths ranging from 4 to 30 feet below ground surface (ft-bgs) and dips to the north. Groundwater occurs in the unconsolidated fill, and flows from the southeast to the northwest, where it discharges to the Bay. The depth to groundwater ranges from approximately two ft-bgs (578 ft-amsl) in the southwestern end of the Site to approximately 15 ft-bgs (571 ft-amsl) at the northern end. The mean water elevation of the Bay is approximately 570 ft-amsl. Aquifer testing completed during the RI indicates that the average hydraulic conductivity at the Site is approximately 1×10^{-3} centimeters/second (cm/sec). Groundwater and bedrock contour maps presented in the RIR are provided in **Appendix B**.

1.2 SUMMARY OF ACT 2 DOCUMENTATION

1.2.1 Act 2 Remedial Investigation

The Site has been characterized through a series of investigations dating back to 2006; the RIR summarized all investigation activities at the Site. A chronological inventory of the investigations described in the RIR is presented below:

- “Summary Report – Access Road Pre-Excavation Sampling”, Environmental Remediation and Recovery, Inc., October 27, 2006 (ER&R, October 2006).
- “Preliminary Soil and Ground Water Investigation Report”, O’Brien & Gere, February 6, 2008 (O&G, February 2008).
- “Phase I ESA” (MACTEC, 2008).
- “Phase II Environmental Site Assessment, GAF Building Materials Corporation Site”, MACTEC June 18, 2009 (MACTEC, June 2009).
- “Ground Water Sampling Event, July 2009”, O’Brien & Gere, October 13, 2009 (O&G, October 2009).
- “DNAPL Removal/Groundwater Elevation Measurement”, O’Brien & Gere, August 9, 2010 (O&G, August 2010).
- “Phase III Environmental Site Assessment Report – GAF Building Materials Corporation Site”, MACTEC, February 11, 2011 (MACTEC, February 2011).
- “Phase III ESA Supplemental Groundwater Sampling and Waste Disposal Documentation”, MACTEC, April 12, 2011 (MACTEC, April 2011).

Relevant information from each of those investigations was included in the Act 2 RIR that was submitted in October 2011 and approved by PADEP in January 2012.

Appendix B contains copies of relevant tables and figures from the RIR. The key conclusions of the RIR included the following:

- 1) The Site is comprised of land consisting of soil fill, roofing materials, and construction debris. Solidified tar and roofing materials are present on the embankments that form the shoreline with the Bay. Site fill material also is visible within the embankment of a storm water ditch that exists in the northeastern corner of the Site.

- 2) Numerous SVOCs, along with arsenic and 1,3,5-trimethylbenzene have been detected in soil samples (i.e., fill material) collected throughout the Site in concentrations that exceed the respective Residential, Non-use Aquifer (RNUA) Medium Specific Concentrations (MSCs). PCBs were not detected in concentrations exceeding the MSCs. Further delineation of specific exceedances is not likely to be meaningful due to the heterogeneous nature of the fill material.
- 3) A non-aqueous phase liquid (NAPL) plume exists in the central part of the Site, along the eastern boundary, in the area where tar, asphalt, and other petroleum products were stored and transferred for use in the manufacture of roofing materials. The NAPL is highly viscous and contains constituents that float (light phase NAPL [LNAPL]), as well as sink in water (dense phase NAPL [DNAPL]). Given the physical characteristics of the NAPL, its age, and the hydrogeology of the Site, it appears that the boundaries of the NAPL are relatively stable.
- 4) Groundwater from the Site discharges to the Bay. Groundwater data from perimeter monitoring wells closest to the Bay has been compared to relevant PADEP surface water quality criteria. Results of the screening indicated that additional diffuse groundwater discharge modeling would be necessary to conduct the risk assessment. That work was completed in early 2012 and is described in the Risk Assessment summarized below in Section 1.2.2.

Based on these RIR conclusions, a Risk Assessment was conducted in accordance with the Act 2 regulations.

1.2.2 Act 2 Risk Assessment

A Risk Assessment was completed using data from the RIR within the context of the intended mixed residential/commercial end use described in the April 2012 Concept Plan Report. The RA report was submitted initially in June 2012. PADEP comments were addressed and incorporated into the revised Final RA that was submitted to PADEP in February 2013. PADEP approved the Final RA on April 2, 2013 (**Appendix A**).

The RA indicated that, if left unmitigated, unacceptable carcinogenic risks and non-carcinogenic hazards could potentially exist to construction workers, residents, recreational users, and commercial workers. Table 7 from the RA that summarizes the RA results is included in **Appendix B**.

Analytical data presented in the RIR was screened against appropriate PADEP and US EPA soil, groundwater, surface water and sediment criteria to identify constituents of potential concern (COPCs). A City of Erie ordinance exists that prohibits the use of groundwater for any

purpose. Therefore, risks related to impacted groundwater were evaluated with respect to direct contact/ingestion by a construction worker, outdoor and indoor vapor inhalation, and diffuse groundwater discharge to the Bay.

The COPCs included a variety of VOC, SVOC and metal constituents as identified on the RA Summary of Risk Assessment Results table included in **Appendix B**. The PADEP bench marks for cumulative risk and hazards of 1×10^{-4} and unity (1) were exceeded for the following receptors and pathways:

- 1) Construction worker: Direct contact/ingestion with Site soil and groundwater
- 2) Resident: Direct contact/ingestion with Site soil and potential vapor intrusion into future structures
- 3) Recreational user: Direct contact/ingestion with Site soil
- 4) Commercial worker: Vapor intrusion into structures

The risk associated with outdoor vapor exposure was evaluated and found not to present an unacceptable risk. In addition, the risk to a recreator in the Bay was determined not to present an unacceptable risk.

The ecological receptors potentially affected by Site COPCs were determined to be aquatic receptors in the Bay. The relevant constituent transport routes to the Bay were determined to be through erosion of site materials (e.g., shingles, solidified tar, etc.) and diffuse groundwater discharge from the Site to the Bay. The sediment exposure route was evaluated by comparing existing sediment data with information presented by PADEP in recently published risk assessment documents prepared as part of their efforts to delist the Bay as a Great Lakes Area of Concern (AOC). The results indicated that sediments did not present an unacceptable ecological or human health risk.

The diffuse groundwater discharge route was evaluated by screening the existing data from perimeter groundwater monitoring wells against the published PADEP surface water quality standards at 25 PA Code Chapter 93. Analytes exceeding the Chapter 93 criteria were carried forward as COPCs. The COPCs were then evaluated using the Quick Dominico, SWLoadSB5, and the PENTOX SD models.

Dissolved iron was the only COPC that exceeded the Chapter 93 criteria after modeling. An evaluation of dissolved iron as a COPC was conducted by collecting samples from the Bay. The results were less than the PADEP surface water quality standard. Therefore, it was determined that groundwater discharge to the Bay did not result in unacceptable ecological or human health risk.

The RA concluded that remedial actions were necessary to mitigate the potential future risks on the Site associated with the COPCs. Therefore, an Act 2 Cleanup Plan was prepared that described the engineering and institutional controls necessary to eliminate potentially complete exposure pathways relative to the anticipated end uses described in the Concept Plan.

1.2.3 Act 2 Cleanup Plan

Based on the results of the risk assessment, the objectives of the remedial actions presented in the cleanup plan were to reduce or eliminate the risk associated with:

- 1) Direct contact with Site soils;
- 2) Vapor intrusion into future structures;
- 3) Interaction of Site material with Presque Isle Bay; and
- 4) The off-Site migration of NAPL from the area identified in the RIR.

Various alternatives were evaluated to determine the most effective means to achieve those objectives. Ultimately, the following engineering controls were determined to be the most effective:

- 1) Cover the Site with 1 foot of clean soil, crushed concrete or hard surfaces to eliminate the direct contact pathway;
- 2) Require that future construction which will have continuous human occupancy contain passive vapor mitigation measures;
- 3) Construct a steel sheet pile seawall along the Bay and pipe the storm water drainage ditch to minimize the potential for site materials to migrate to the Bay; and
- 4) Construct a slag/cement/bentonite slurry wall along the eastern site boundary to eliminate the potential for off-Site NAPL migration to the east (down dip direction of bed rock).

Along with the engineering controls, the Cleanup Plan presented a preliminary Post Remediation Care Plan that describes the anticipated activity and use limitations to be included in the Environmental Covenant (EC). The Cleanup Plan was originally submitted to PADEP in July 2012; subsequently, the ECCCA requested that PADEP suspend its review until the RA was revised and finalized. PADEP requested that the Cleanup Plan include additional information relating to vapor mitigation. Revisions to the Cleanup Plan were provided and PADEP approved the Cleanup Plan on April 5, 2013. A copy of the PADEP approval letter is included in **Appendix A** and a copy of the vapor mitigation information is included in **Appendix B**.

1.3 CONCEPT PLAN SUMMARY

Beginning in September 2011, the ECCCA completed a Concept Planning process to determine what the desired end use of the site should be. That process included approximately 8 months of extensive public/stakeholder outreach and market analysis that culminated in the Final Concept Plan that was approved by ECCCA on April 5, 2012. The approved Concept Plan recommends a mixed use redevelopment of the Site as shown on the figure in **Appendix B** and described below:

- Western portion of the Site along the Bay – Park/Public Access: This area would be covered with either grass or paved walking areas.
- Northern portion of the Site – Hospitality/Restaurant: Currently, it is expected that either a hotel or restaurant(s) will occupy this area.
- Central portion of the Site – Single and multi-family residential, retail, restaurant, office, and parking: It is currently expected that the prominent feature of this part of the Site will be a multi-story parking deck along Sassafras Street. It is envisioned that the ground floor of the structures, except the single family homes, could contain some commercial retail or office space.
- Southern portion of the Site – Multi-family residential and office space.

The results of the Concept Plan were then used in the Act 2 RA to ensure that remedial measures would satisfactorily mitigate risk to the future end users of the Site.

2.0 REMEDIATION

The Cleanup Plan presented an evaluation of various remedial options to meet the stated goals. The selected remedy included the following items identified below and described throughout the remainder of this report. Remediation occurred between June 2012 and June 2014. Photographs of remediation activities are provided in **Appendix C** and the Post Remediation Site Plan is shown as **Figure 3**. The following summarizes the remedial activities:

- 1) Site Preparation: Prepare the Site for remediation by removing approximately 10 acres of concrete floors and foundations as well as asphalt roadways and brick that remained following the 2010 demolition by GAF (**Figure 2**). That material was crushed on site and the resulting 38,000 CY of material was stockpiled for use on Site as backfill and cover during remediation.
- 2) Slurry Wall Construction: Construct a 470-foot long slag/cement/bentonite (SCB) slurry wall parallel to Sassafras Street to minimize the potential for future migration of NAPL to the east in the down dip direction of bedrock. Construction details are included in **Appendix D**.
- 3) Seawall Construction and Piping Storm Water Ditch: Construct a 900-foot long steel sheet pile seawall (seawall) along the Bay shoreline and pipe the storm water ditch (approximately 500 feet) to mitigate potential for migration of Site material to the Bay. Record drawings are provided in **Appendix E**.
- 4) Storm Water Management and Infrastructure Construction: Install the Site storm water management system to meet the NPDES permit requirements and install necessary lighting and irrigation along the seawall alignment to meet City codes and reduce the amount of future excavation into site materials by future users. Record drawings for these features are provided in **Appendix E**.
- 5) Clean Cover System: Regrade the Site and cover with marker mat and one foot of clean cover to mitigate the potential future risk to residents via the direct contact with soil exposure pathway. The cover system is generally in two sections: the clean soil cover and the seawall alignment cover. The clean soil cover has a section of crushed concrete in the temporary parking area and emergency exit. The seawall alignment cover consists of soil and hard surfaces (concrete and asphalt walkways along the seawall). Attainment topographic survey drawings and clean fill certification information is provided in **Appendix F**.

Prior to the start of remediation, applications for National Pollution Discharge Elimination System (NPDES) permits were submitted and permits received. In addition, an application was submitted for a Joint 105 permit (PADEP and United States Army Corps of Engineers [USACE])

for the construction of the seawall and piping the storm water ditch. Approval documentation is included in **Appendix A**.

During the course of remediation, various non-hazardous wastes were discovered that required off-Site disposal as described in Section 2.6. A summary of waste disposal documentation is provided in **Appendix G**.

Site security was controlled throughout remediation using permanent and temporary fencing. No health and safety incidents were recorded.

2.1 PERMITS

This remediation project required a NPDES construction storm water permit and a Joint PADEP and USACE Chapter 105 permit for surface water encroachment. In accordance with guidance received from PADEP and the Erie County Conservation District (ECCD), the General NPDES permit application was submitted to ECCD and PADEP in two phases. The Phase I NPDES permit application was submitted in February 2012 and approved in March 2012 for the removal and on-Site crushing of existing hard surfaces, foundations and construction debris resulting from the 2010 demolition. That permit number is PAG020025213.

The Phase II NPDES permit application was submitted to ECCD in May 2012 and approved January 13, 2013 (permit number PAG020025213(1)). This permit is for the fully developed Site as depicted on the figure in **Appendix A**, as opposed to only the completed cleanup activities. The existing Phase II permit expires September 25, 2018.

The Joint 105 permit application for surface water encroachment (for the seawall and ditch piping) was submitted to PADEP in May 2012; PADEP in turn submitted the application to the USACE. The Joint 105 Permit was approved by PADEP on November 2, 2012 and assigned permit number E25-748. The USACE approved the Joint 105 permit April 16, 2013 and assigned permit number 2005-504. The permit approval documentation is included in **Appendix A**.

2.2 SITE PREPARATION

Site preparation included removing and crushing hard surfaces; properly closing a previously closed gas well; removing overhead utility lines; abandoning on-site monitoring wells, and plugging former storm sewer lines.

2.2.1 Removal and Crushing of Hard Surfaces and Foundations

Between June and November 2012 hard surfaces (floors and roadways), footers and foundations were removed and crushed on Site by Ray Showman, Jr. Excavating, Inc. (Showman). The brick debris that remained from the 2010 building demolition by GAF was also crushed. The removal of this material was required to implement the remedial activities.

The crushing operation resulted in approximately 38,000 CY of material with a 2 to 3-inch size. The material was stockpiled for reuse as backfill during remediation activities on Site. The material was used as sub base for the likely future parking deck over the NAPL area (**Figure 3**), backfill behind the sea wall, and bedding for the storm water ditch pipe and storm water management piping.

2.2.2 Gas Well Abandonment

A previously abandoned gas well is present on the Site at the location shown on **Figure 2**. The PADEP well permit number is 37- 049-24606-00. It was installed in 1985 and abandoned initially in 2007 according to a PADEP Certificate of well plugging obtained by AMEC (**Appendix G**). Because excavation was planned for the area around the gas well as part of the Act 2 cleanup, AMEC reviewed the 2007 Certificate and found that the earlier well abandonment activities were not adequate. AMEC conferred with the PADEP oil and gas well inspectors office for the Northwest Region and they concurred that the earlier work was likely insufficient.

AMEC subcontracted the services of Bruce Coffin Trucking, Inc. (Coffin) to properly abandon the well. Following PADEP approval of the well abandonment plan, Coffin abandoned the well between September 27 and October 3, 2012 to an attainable depth of 2,430 feet below ground surface. The 2012 Certificate of Well Plugging is included in **Appendix G**.

2.2.3 Sassafras Street Sewer Line Inspection

A 48-inch diameter City of Erie storm sewer is present beneath Sassafras Street that discharged to the open drainage ditch on Site as shown on **Figure 2**. During hard surface

removal work in July 2012, a slight sheen was observed in the drainage ditch and PADEP was notified. Observations made over a period of a week indicated that the occurrence of the sheen was an isolated event. The presence of the sheen and the planned excavation in the area led AMEC to propose an investigation of the storm sewer. Approval was received from the City of Erie to videotape the sewer; the videotaping was conducted in July 2012. The investigation identified one storm sewer lateral entering the 48-inch storm sewer from the direction of the Site. As a precaution, the one lateral was excavated and plugged to prevent the potential for the lateral to act as a pathway for material migration from the Site (**Figure 2**).

2.2.4 Monitoring Well Abandonment

Terra Testing, Inc. (Driller License #2309) abandoned the on-Site groundwater monitoring wells MW-1 through MW-11 (**Figure 2**) by over drilling and grouting the boreholes. The work was conducted in May and October 2013. Copies of the well abandonment reports submitted to PADEP are included in **Appendix G**. One monitoring well remains from the RI groundwater monitoring network (MW-12), which is located east of the Site in the Convention Center parking lot (**Figure 3**). MW-12 is anticipated to be required for post-remediation monitoring.

2.2.5 Overhead Utility Removal

On-Site utility poles and a ground transformer from the former GAF operations remained after GAF performed the 2010 building demolition. The poles required removal to ensure complete installation of the Site cover system as part of the Site remediation. The utility poles and associated overhead lines were removed in July 2012. In addition, utility poles adjacent to the Site along Sassafras Street that were no longer in use were removed at the request of the ECCA in April 2014. The work was completed by Penelec and Verizon.

2.3 NAPL CUTOFF WALL

GeoSolutions, Inc. (GeoSolutions), a contractor specializing in the design and installation of environmental subsurface barriers, installed the slag/cement/bentonite (SCB) slurry cut off wall (slurry wall) parallel to Sassafras Street. The location of the wall is shown on **Figure 3** along with current ground surface elevations and bedrock elevations. The slurry wall mitigates the potential for NAPL to migrate in the down dip direction of bedrock (east). A slight field adjustment to the planned alignment was made to account for yet to be removed utility poles and overhead lines that existed on the eastern portion of the Site.

GeoSolutions mobilized to the Site from May 13 through May 15, 2013; slurry wall installation occurred from May 16 to May 20, 2013. PADEP performed an inspection of the slurry wall installation on May 17, 2013.

The QA/QC report and results of permeability and compatibility testing performed by GeoSolutions to prepare the detailed slurry wall design is included in **Appendix D**. Daily QA/QC testing and observations during the slurry wall installation are also provided in **Appendix D**. Slurry wall construction details are summarized below:

- Equipment: Slurry mix plant and hydraulic excavator.
- Length and width: 470 feet long by approximately 3 feet wide.
- Depth/elevation below ground surface: 12 feet below ground surface at the southern end up to 16 feet at the northern end. Corresponding bedrock elevations at the termination of the slurry wall in bedrock are approximately 566 ft-amsl and 563 ft-amsl, respectively.
- Average Permeability: 3×10^{-8} cm/sec (Cleanup Plan design specification was 1×10^{-6} cm/sec).
- Slurry Mix: Minimum density of 69 pounds per cubic foot; design slag, cement and bentonite to water ratio of 12%, 1% and 5%, respectively.
- Water Source: Presque Isle Bay.

Prior to slurry wall installation, Showman graded the alignment to create a level work platform and the alignment was staked by Porter Consulting Engineers (PCE). The slurry wall construction started at the southern end and progressed north. Excavated soil was placed to the Site interior, i.e., to the west of the slurry wall work area to prevent potential offsite migration of soil and any slurry that was excavated during installation. The excavated material was graded to drain toward the slurry trench to contain any liquid slurry. Unforeseen conditions that would adversely affect the slurry wall installation and performance, e.g., waste materials from former Site operations, liquid or solidified tar, structural debris, etc., were not encountered during installation of the slurry wall.

Based on conditions encountered during performance of the RI, it was anticipated that soil impacted by NAPL would be excavated during slurry wall installation. The Cleanup Plan required that NAPL-impacted soil be disposed off-site. However, appreciable quantities of NAPL-impacted soil were not encountered during slurry wall installation. The majority of soil excavated, after allowing time to drain any slurry back to the slurry trench, was spread on Site for placement under the clean cover system. The remainder was disposed off-Site as detailed in Section 2.6 – Waste Disposal.

2.4 DRAINAGE DITCH PIPING, STEEL SHEET PILE SEAWALL AND STORM WATER MANAGEMENT

To minimize the potential for Site materials to migrate to the Bay, the existing open storm water conveyance ditch on the Site's northeastern boundary was replaced with reinforced concrete pipe (RCP) and the Site northern and eastern boundaries, i.e., the Site shoreline with the Bay, was stabilized and segregated from the Bay by installation of a steel sheet pile seawall. The work was completed in accordance with design drawings contained in the Joint 105 permit and Phase II NPDES permit as described below.

2.4.1 Drainage Ditch Piping

The storm water drainage ditch from Sassafra Street to the Bay was replaced with 48-inch with a transition to 60-inch diameter RCP to mitigate the potential for Site material to erode into the ditch and discharge to the Bay. The alignment of the drainage ditch is shown on **Figure 3** and the engineer's construction certification and record drawings are included in **Appendix E**. The work was completed from May to July 2013.

The pipe run is approximately 550 feet long and penetrates the seawall at the discharge point at the northeast corner of the Site. The storm water ditch replacement generally occurred in the following manner:

- 1) Survey and layout of the pipe alignment;
- 2) Establish erosion and sediment controls and clear and grub the work area;
- 3) Using a hydraulic excavator, undercut the existing ditch by approximately 2 feet and replace with aggregate bedding to establish appropriate grade and provide a solid base for pipe installation. Excavated material was placed on Site in an area to receive the

Site cover system. Visibly impacted material was placed staged on-site and subsequently disposed of off-Site disposal;

- 4) Install the 48-inch and 60-inch RCP pipe and vaults as indicated on the design drawings;
- 5) Backfill with crushed hard surface material and graded aggregate as required; and
- 6) Cover the backfill with top soil; seed and mulch the disturbed area.

Work began at the existing Sassafra Street 48-inch RCP storm sewer and progressed north. Some areas of solidified tar were encountered along the western bank of the drainage ditch. The solidified tar was removed as necessary to allow installation of the RCP storm sewer.

2.4.2 Steel Sheet Pile Seawall Installation

A 975 feet long steel sheet pile seawall was constructed along the shoreline with Presque Isle Bay in order to stabilize the shoreline and prevent migration of Site materials to the Bay (**Figure 3**). The engineer's construction certification and record drawings are included in **Appendix E**. The seawall was constructed from June to September 2013 in accordance with design drawings contained in the NPDES and Joint 105 Permits.

Prior to the start of construction, the seawall installation contractor, Lake Shore Towing, placed a dual curtain turbidity barrier in the Bay. Construction started at the northwest corner of the wall and progressed to the east. Once that was completed, construction continued from the northwest corner south.

The seawall was generally constructed in the following manner:

- 1) PCE surveyed and established the seawall alignment; Showman cleared and grubbed the shore line and graded a level work area along the shore line;
- 2) Showman excavated a trench using on-shore equipment along the seawall alignment to remove any obstructions (e.g., large pieces of concrete);
- 3) Lake Shore drove steel beams into bedrock along the seawall alignment at 10-foot intervals using a hydraulic hammer positioned on a barge. A steel wailer (horizontal cross member) was attached to the beams to guide the placement of the steel sheet piles on the seawall alignment;

- 4) Steel sheet piles driven to bedrock along the alignment and pinned to the bedrock by augering into the bedrock for insertion of pins through sleeves welded to the sheet piles;
- 5) Construction of concrete deadmen or anchors behind the seawall and on the Site to anchor the top of the steel sheet piles to prevent seawall rotation or bending. Installation of steel rod tie backs from the seawall to the deadmen. The tie backs were placed at 8-foot intervals along the seawall alignment;
- 6) Backfill behind the seawall with the crushed concrete from the hard surface removal activities that was stockpiled on the Site; and
- 7) Cutting the top of the steel sheet piles to establish a uniform elevation along the top of the seawall and installation of a steel cap on top of cut sheet piles.

Excavated material encountered during construction consisted primarily of sand, silt, gravel and rock along with large pieces of concrete that had been used to stabilize the shoreline. Some shingles, tar paper and tar were encountered but no evidence of any Site-related material was identified in the Bay along the seawall alignment. Excavated material from the seawall installation was used as seawall backfill or placed on Site for inclusion under the cover system.

2.4.3 Storm Water Management

Storm water management structures were installed as shown on **Figure 3** in accordance with design drawings contained in the NPDES permit. Record drawings and an engineer's certification are provided in **Appendix E**.

Storm water discharges from the Site to the Bay through six outfalls (including the storm water drainage ditch replaced with RCP). Five of the outfalls are through penetrations in the seawall and the sixth is through a flared culvert end section in the southwest corner of the Site. Groundwater was not encountered during storm water system construction. Comparison of the catch basin invert elevations with groundwater elevations presented in the RIR (**Appendix B**) indicates that the storm sewer system is typically 2 to 3 feet above the known water table.

Excess excavated Site materials that could not be used as backfill were distributed throughout the Site for placement beneath the cover system. No unforeseen subsurface conditions or structures were encountered during construction of the storm sewer system (e.g., significant pockets of tar, drums, etc.).

2.5 REGRADING AND SITE COVER

Throughout the 2013 construction season, the Site was graded to allow for placement of the cover system as described in the Cleanup Plan and NPDES permits. The subgrade was compacted to minimize potential future settlement.

The following sections describe the cover system components.

2.5.1 Marker Layer and Clean Soil

Once subgrade was established, a survey was obtained on a 50-foot by 50-foot grid. A marker layer consisting of orange plastic snow fence was placed on the subgrade and a minimum of 1 foot of clean soil cover was placed over the marker layer. The clean soil cover included 6 inches of common fill lightly compacted followed by 6 inches of top soil that was tracked in place. A verification survey was obtained after soil cover placement using the established 50-foot grid system to confirm that the soil cover thickness met the minimum one foot specification. The survey drawing confirming the one-foot cover thickness is included in **Appendix F**. Seeding and mulching of the top soil layer was conducted after obtaining the verification survey. Approximately nine acres of the Site received placement of the soil cover system.

Clean Fill Certification documentation from the four off-site sources used for soil fill is provided in **Appendix F**. The sources of clean fill included: Bianchi Honda (former farm field); Penn State Behrand soccer field (former wooded area), Fairview Nursery (former wooded area), and Maybro Asphalt (high school football field).

2.5.2 Recycled Crushed Aggregate

Approximately 4 acres are covered with aggregate from the hard surface crushing operation. The Future Parking Garage Area (**Figure 3**) is approximately 3.7 acres. In that area, the aggregate is approximately 3 feet thick over a geotextile marker. Aggregate placement was performed to provide the ECCCA with temporary overflow parking and to provide a suitable base for the expected future construction of a parking deck. The remaining 0.3 acres is the temporary road connecting the parking area to the Bayfront Parkway Site entrance. Although crushed aggregate was used as backfill behind the seawall, the seawall backfill area was subsequently covered with clean soil, concrete, or asphalt.

2.5.3 Hard Surfaces

Approximately 0.5 acres along the seawall is covered with hard surfaces that include concrete and asphalt walkways and a combination stone/concrete surface along the entire length of the seawall.

2.6 WASTE DISPOSAL

Various materials were encountered during the remediations that were unsuitable for backfill or that were characterized as waste that required off-Site disposal. A total of 1,650 tons of site materials were disposed of off-Site as residual waste at Lakeview Landfill. A total of 54 tons of friable and non-friable asbestos containing material (ACM) were disposed of at Lake View Landfill. A summary of the materials removed for off-Site disposal are listed as follows:

- 1) Tar and solidified tar from subsurface pits, tanks, and several drums discovered during hard surface removal and disposed of as residual waste. Through discussions with PADEP, it was determined that the encountered structures were not regulated tanks; therefore, registration was not required.
- 2) ACM including rolled roofing material and pipe insulation discovered during hard surface removal and installation of storm water sewers.
- 3) Clearing and grubbing: Trees and roots removed during clearing and grubbing were chipped on Site and removed by Showman for use at other projects.
- 4) Rail Road ties: A total of 571 rail road ties were recovered during hard surface removal and disposed of as residual waste.

“Clean” Metal scrap: Metal pipes and other metal debris that were not impacted by ACM or tar were stockpiled and disposed of as scrap. This included the ground transformer that was determined by sampling to be non-PCB containing. Pipes containing tar were disposed of as residual waste.

Completed manifests have been provided to the PADEP and ECCCA in accordance with applicable regulations. A summary of disposal documentation is provided in **Appendix G**.

3.0 ATTAINMENT

The objectives of the remediation were to reduce or eliminate the risk associated with the following pathways (note that the corresponding mitigation measure is in italicized print):

- 1) Direct contact with Site soils – *Cover system*;
- 2) Vapor intrusion into future structures – *Environmental Covenant (EC) requirement for vapor mitigation in future structures*;
- 3) Migration of Site material to Presque Isle Bay – *Replace the storm water drainage ditch with RCP and construct seawall*; and
- 4) The off-Site migration of NAPL from the area identified in the RIR – *Construction of SCB cut off wall*.

The information contained in this final report demonstrates attainment with the PADEP Act 2 Site Specific Standard. Currently, the intended use for the Site is recreational in the open public space along the Bay (**Figure 3**). It is possible, that the ECCCA may choose to periodically allow the public to use the “future parking deck” area for parking during events at the Convention Center. Although the direct contact with Site soil has been mitigated, access to the interior portion of the Site is controlled by a permanent 6 foot high chain link fence (**Figure 3**). Ultimately, the Site is expected to be used for residential and commercial purposes.

The only structure on Site is the former GAF guard shack where controls for the motorized gate, Site lighting, and Site irrigation system for landscaping are located. The guard shack is expected to remain for the foreseeable future until the motorized gate is no longer needed.

The Site may be developed in a manner consistent with the plans presented in the NPDES permit documents. The Post Remediation Care Plan presented in Section 5.0 is necessary to ensure continued effectiveness of remedial measures and protect future workers and users of the Site.

4.0 FATE AND TRANSPORT

The PADEP approved RIR and Risk Assessment report presented the results of detailed fate and transport analyses. Those analyses indicated that:

- Groundwater discharge to the Bay meets acceptable human and ecological risk criteria;
- The potential existed for the erosion of site soil into the Bay; and
- The potential existed for the off-site migration of NAPL.

The remedial actions described herein have successfully mitigated the potential migration of impacted media from the Site and no further fate and transport analyses are warranted. The continued performance of the cut off wall in mitigating the potential off-Site migration of NAPL will be monitored annually as described below in Section 5.0.

*From
FR
Binder*

5.0 POST REMEDIATION

Attainment of the Act 2 Site : both engineering and institutional controls. The objective of this Post Remediation Care Plan (PRCP) is to ensure the continued attainment with the Site Specific Standard in the future.

In accordance with the Act 2 regulations, following PADEP approval of this Final Report, an Environmental Covenant (EC) will be executed between the ECCCA and PADEP and then recorded with the deed for the property. The EC will include activity and use limitations (AULs) and compliance reporting requirements. Those items are described below in Section 5.1 followed by vapor mitigation and soil management plans in Sections 5.2 and 5.3, respectively.

5.1 ENVIRONMENTAL COVENANT

The EC will be prepared in a similar format to the PADEP "Model Environmental Covenant" shown in **Appendix H**. A draft EC will be submitted to PADEP for approval within 90 days following approval of this Final Report. Following PADEP approval of the EC, it will be recorded with the property deed and proof of filing with the deed office will be provided to PADEP. The AULs and compliance monitoring and reporting requirements to be included in the EC are described below.

5.1.1 Activity and Use Limitations

The EC will contain the following language pertaining to AULs:

"The Property is subject to the following activity and use limitations, which the then current owner of the Property, and its tenants, agents, employees and other persons under its control, shall abide by:

- The groundwater beneath the Site shall not be used for any purpose;
- Subsurface structures such as basements shall not be constructed on Site;
- Structures which are intended for continuous human occupancy shall be constructed with vapor mitigation measures as indicated in the Post Remediation Care Plan presented in the Act 2 Final Report unless the Department determines in writing that it is not necessary to include any indoor vapor intrusion mitigation for a specific structure based on an analysis of the need for indoor vapor intrusion mitigation of that structure by the owner of the proposed structure; and

- The cover system shall be maintained as described in the Post Remediation Care Plan presented in the Act 2 Final Report.”

5.1.2 Compliance Reporting

The EC will contain the following language relating to compliance reporting:

“Starting in the first January following recordation of this Environmental Covenant and biennially after that for two subsequent events, or after written request by the Department following the Department’s approval of this Environmental Covenant, the then current owner of the Property shall submit, to the Department, written documentation presenting the results of compliance monitoring described in the Act 2 Final Report and stating whether or not the activity and use limitations in this Environmental Covenant are being abided by.

In addition, within 1 month after any of the following events, the then current owner of the Property shall submit, to the Department, written documentation of:

- Observed presence of NAPL in monitoring well MW-12 (or replacement);
- Noncompliance with the activity and use limitations in this Environmental Covenant;
- Transfer of the Property;
- Changes in use of the Property; or
- Filing of applications for building permits for the Property and any proposals for any site work, if the building or proposed site work will affect the contamination on the Property subject to this Environmental Covenant.”

5.2 PASSIVE INDOOR VAPOR MITIGATION

Structures which are intended for continuous human occupancy shall be designed and constructed in general accordance with Section 2.2 of the approved Act 2 Cleanup Plan that relates to passive vapor mitigation (**Appendix B**) unless the Department determines in writing that it is not necessary to include any indoor vapor intrusion mitigation for a specific structure based on an analysis of the need for indoor vapor intrusion mitigation of that structure by the owner of the proposed structure..

Any future building slabs shall be considered part of the vapor mitigation system in that they keep the vapor from entering the buildings directly. Absent another mitigating vapor intrusion system, the owner should ensure that there are no punctures or openings in the slabs, and that any openings such as pipes, electrical wires or other building elements are sealed with rubber gaskets, spray foam, or in some other way to prevent air from beneath the slabs from entering the living space.

5.3 COMPLIANCE MONITORING

Compliance monitoring will be performed annually to confirm that NAPL is not migrating from the Site and that the integrity of the cover system is maintained as described below.

5.3.1 Biennial NAPL Monitoring

Monitoring well MW-12 (**Figure 3**) will be considered the compliance well and gauged biennially for presence of NAPL to confirm the continued efficacy of the NAPL SCB cut-off wall. Monitoring will be performed using a suitable electronic measuring device (e.g., oil/water interface probe) or a bailer or other means that allows the collection of a representative sample of the water column for visual observation.

The first monitoring event will occur by the first January following the recordation of the EC. In accordance with the EC, PADEP will be notified within 1 month of NAPL identification in MW-12. If no NAPL is observed, two subsequent biennial monitoring events will be conducted. Monitoring will be discontinued if NAPL is not observed during any of the monitoring events. The results of the monitoring will be included in the Compliance Report required by the EC.

5.3.2 Cover System Monitoring and Maintenance

The cover system functions by restricting human access to impacted materials located beneath the cover. Currently, the cover system is comprised primarily of 1 foot of clean soil and to a lesser extent by concrete aggregate and paving. It is anticipated that in the future, much of the Site will contain various structures and roadways as depicted in the existing NPDES permit.

The owner will inspect the cover system annually, or as required by any subsequent permit. The table below identifies the general items to be inspected

Inspection Item	Likely Corrective Measure
Vegetative cover	Revegetate as needed
Soil Cover Erosion	Replace with clean soil to ensure the 1 foot cover thickness and reseed
Pavement	Replace pavement that exposes underlying Site soil.
Storm Water Management Structures	Remove obstructions to allow free drainage and repair any erosion damage

Repairs to the cover system will be made promptly and the corrective action will be documented for inclusion in the Compliance Report. Only certified clean fill as defined by the PADEP Management of Fill Policy will be used to repair the soil cover system. A copy of the PADEP Management of Fill Policy and Clean Fill Certification form is provided in **Appendix H**.

5.4 SOIL MANAGEMENT PLAN

Site soils beneath the cover system may contain asphalt shingles, tar paper that may contain asbestos, tar, and other materials such as drums or tanks that could be considered solid waste if excavated. Therefore, future excavation into and below the cover must be carefully planned and documented to ensure that:

- 1) The integrity of the remedial measures is maintained;
- 2) Construction workers are protected; and
- 3) Site soil is properly managed and disposed of.

The purpose of this Soil Management Plan is to provide general guidelines to be considered when planning for and conducting excavation activities at the Site. In accordance with the proposed EC Compliance Reporting requirements described above in Section 5.1.2, PADEP must be notified within 1 month following the application for building permits or any proposals for activities that "will affect the contamination at the property". Currently, all material beneath the cover system is considered to be potentially "contaminated". Therefore, PADEP must be notified of planned excavation activities beneath the cover and that notification must describe the plans relating to a specific activity for ensuring worker safety and managing the excavated material. Notification must be 15 days prior to initiating any activity that will disturb the soil cover and underlying potentially contaminated materials.

In addition to the required PADEP notification, it is important to understand that the existing general NPDES permit for the developed Site expires on September 25, 2018. Therefore, close coordination with the ECCD is also necessary.

5.4.1 Key Considerations

It is expected that excavation will occur using a variety of methods for a variety of reasons, including:

- 1) Construction of caissons through the unsaturated and saturated zone using large diameter augers;
- 2) Construction of building footers and foundations using heavy construction equipment; and
- 3) Installation of subsurface utilities.

Prospective contractors performing work that may disturb the soil cover and underlying Site Materials need to consider the following:

- 1) Work below the cover system may encounter hazardous substances. Workers who may encounter hazardous substances must meet the training and medical monitoring requirements as defined in OSHA 1910.120 as appropriate for their specific activity. A site-specific health and safety plan should be developed to address work activity hazards and protection of the workers, including air monitoring and other media monitoring as appropriate.
- 2) Measures must be employed to ensure that materials from below the cover system do not impact the clean cover material in the vicinity of the work area;
- 3) Excavated material from below the cover may be used as backfill provided that the marker layer and 1 foot of clean soil cover and/or hard surface are re-established when the work is completed. Excavated material that includes liquid waste, tar, drums, NAPL or tanks must be properly characterized and disposed off-Site;
- 4) Excess material that can't be placed under the cover requires waste characterization and off-Site disposal. No material removed from beneath the marker mat may remain uncovered.
- 5) Fill materials brought on Site must meet the definition of "clean fill" as presented in the PADEP Management of Fill Policy (**Appendix H**).
- 6) Groundwater at the Site contains a variety of VOCs, SVOCs and metals in concentrations exceeding the PADEP MSCs. In addition, NAPL is known to exist in the approximate area of the Site shown on **Figure 3**. Excavation below the water table must include plans for managing and off-Site disposal of liquids.

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- 7) A slag/cement/bentonite cutoff wall exists along a portion of the eastern site boundary. Horizontal penetrations above the water table are permitted (e.g., for utility installation) provided that the integrity of the barrier wall is maintained and that any horizontal penetrations through the barrier wall are appropriately sealed, preferably with materials used to construct the wall, e.g., cement/bentonite grout. Vertical penetrations (e.g., caissons) must be avoided.

- 8) A general NPDES storm water permit exists for the fully developed site. That permit expires on September 25, 2018. Close coordination with the ECCD is necessary during design and execution of excavation to determine what type of modifications to the existing permit, if any, are necessary.

The following section presents the generally anticipated sequence of events during excavation below the cover system.

5.4.2 Excavation

The PADEP must be notified prior to excavation into the soil below the cover system as required by the EC. The notification will include specific plans for ensuring worker safety; managing excavated materials; and; restoring the clean cover system. Excavation below the cover system is expected to generally proceed in the following manner:

- 1) Obtain necessary permits, establish erosion and sediment controls, and implement health and safety measures as required.

- 2) Remove and stockpile the top 1 foot of clean cover and marker layer.

- 3) Excavate into the potentially impacted material and stage on Site, separate from the clean cover. Depending on the size of the excavation, the excavated material could be placed on polyethylene sheeting or the clean cover could be over excavated such that the excavated material is placed directly on other "sub cover" soils. Further containment measures are necessary for excavation below the water table.

- 4) Backfill the excavation with the stockpiled soil from below the cover. Replace the marker layer and stockpiled clean cover such that the 1 foot thickness of clean cover is restored or the material is beneath a hard surface (e.g., roadway, floor slab, etc.).

- 5) Obtain disposal facility approval and dispose of excess impacted soil off-Site at a properly permitted disposal facility. The disposal facility will provide specific instructions for sampling and analysis of the material for characterization.

- 7) A slag/cement/bentonite cutoff wall exists along a portion of the eastern site boundary. Horizontal penetrations above the water table are permitted (e.g., for utility installation) provided that the integrity of the barrier wall is maintained and that any horizontal penetrations through the barrier wall are appropriately sealed, preferably with materials used to construct the wall, e.g., cement/bentonite grout. Vertical penetrations (e.g., caissons) must be avoided.

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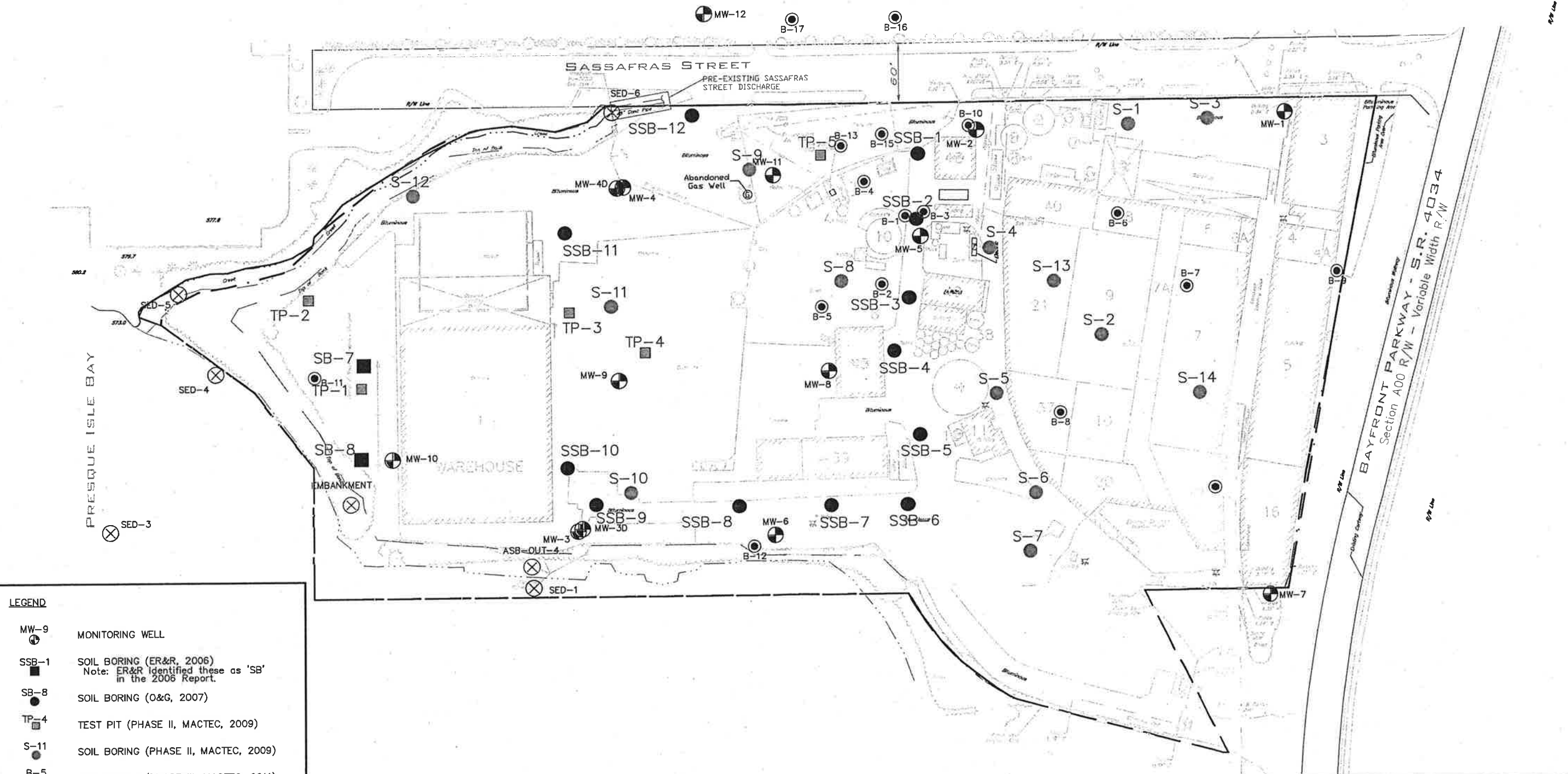
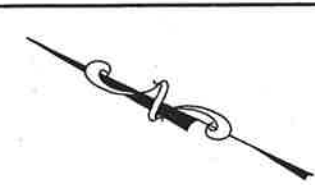
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Table 1
Act 2 Cleanup Summary

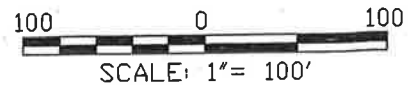
Act 2 Final Report - July 2014
 Former GAF Building Materials Site - Erie, PA
 AMEC Project # 3410110844

Period	Activity	Summary
9/11 to 4/12	Conceptual Landuse Planning	Meet with over 1,000 stakeholders and members of the public and complete market analyses.
10/11 to 1/12	Remedial Investigation Report submitted and approved	
12/11	Pre-permit Planning meeting	Meet on-Site with representatives of USACE, ECCD and PADEP to discuss project and NPDES/Joint 105 Permits. Directed to follow General NPDES Permit procedures and submit in 2 phases.
1/12 to 4/12	Phase I NPDES Approved	Phase I permit for site preparation activities including hard surface removal.
5/12 to 4/13	Phase II NPDES and Joint 105 Permit submittal/approvals	NPDES for fully developed site according to Concept Plan landuse. Joint 105 for seawall and ditch piping.
6/12 to 11/12	Site Preparation	Remove ~10 acres of hard surfaces/footers/foundations, crush and stage ~38,000 c.y. Empty previously unknown pits/tanks containing tar and dispose off-site. Abandon gas well, video storm sewers, remove electric utilities. Additional utility pole removal was completed in 4/14.
6/12 to 4/13	Risk Assessment and Cleanup Plan submitted and approved	
12/12	CSX	ECCCA acquired adjoining CSX parcel and initiated Act 2 process separate from GAF.
5/13	NAPL Cut Off Wall Construction	Construct 470 foot long slag/cement/bentonite slurry wall along eastern boundary parallel to Sassifras St. to mitigate potential offsite migration of NAPL.
5/13	Monitoring Well Abandonment	Abandon on-site monitoring wells except MW-1, MW-7 and MW-12 to allow for Site grading. MW-1 and MW-7 remained for CSX characterization and were abandoned in 10/13. MW-12 remains for post remediation monitoring for NAPL.
6/13 to 8/13	Storm Ditch Piping	Extend the existing Sassifras St. storm sewer ~500 feet to the Bay using 48 and 60 inch RCP.
6/13 to 9/13	Seawall Construction	Install ~900 foot long steel sheet pile seawall.
6/13 to 11/13	Clean Soil Cover	Regrade the Site, place marker layer and 1 foot of clean soil cover.
9/13 to 6/14	Seawall Cover System	The cover system along the seawall includes soil along with concrete and asphalt pavement.
6/14	PADEP Status Meeting	Provide PADEP with anticipated Post Remediation Care Plan requirements and inform them of anticipated redevelopment activities.
7/14	Final Report Submitted	




LEGEND

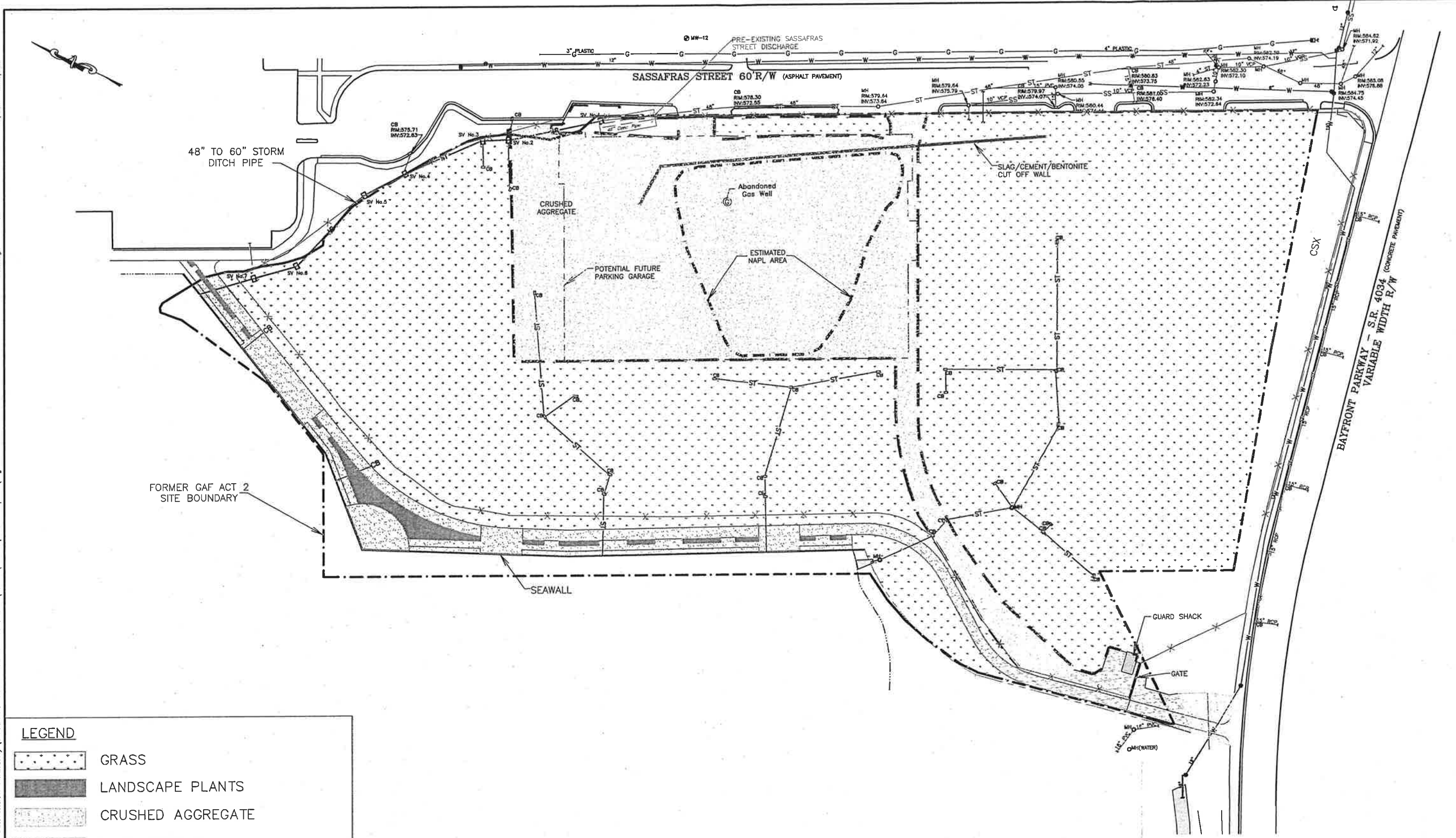
MW-9	MONITORING WELL
SSB-1	SOIL BORING (ER&R, 2006) Note: ER&R identified these as 'SB' in the 2006 Report.
SB-8	SOIL BORING (O&G, 2007)
TP-4	TEST PIT (PHASE II, MACTEC, 2009)
S-11	SOIL BORING (PHASE II, MACTEC, 2009)
B-5	SOIL BORING (PHASE III, MACTEC, 2011)
ASB-1	EMBANKMENT TAR & TARPAPER SAMPLING LOCATIONS (PHASE II, MACTEC, 2009)
SED-3	SEDIMENT SAMPLING (PHASE II, MACTEC, 2009)
---	ACT 2 PROPERTY BOUNDARY



Ref: Sanford Surveying & Engineering, P.C., f-base.dwg, revised 11-3-2010.

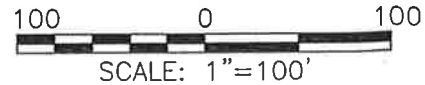
Act 2 Final Report Former GAF Site 218 Bayfront Parkway Erie, Pennsylvania Project No.: 3410110844	 Environment & Infrastructure 800 North Bell Avenue, Suite 200 Pittsburgh, Pennsylvania 15106	Pre-Remediation Site Plan and Sampling Locations Figure: 2	2
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P:\PROJECTS\Erie County Convention Authority\3410110844 - GAF Remediation\CADD\FINAL\ACT2 Report\Fig 3 Post-Remediation Site Plan - June 2014.dwg Thu, 26 Jun 2014 3:14pm stephanie.downs



LEGEND

- GRASS
- LANDSCAPE PLANTS
- CRUSHED AGGREGATE
- HARD SURFACE
- STEEL SHEET PILE SEAWALL
- FENCE
- PROPERTY & ACT 2 BOUNDARY
- ABANDONED GAS WELL

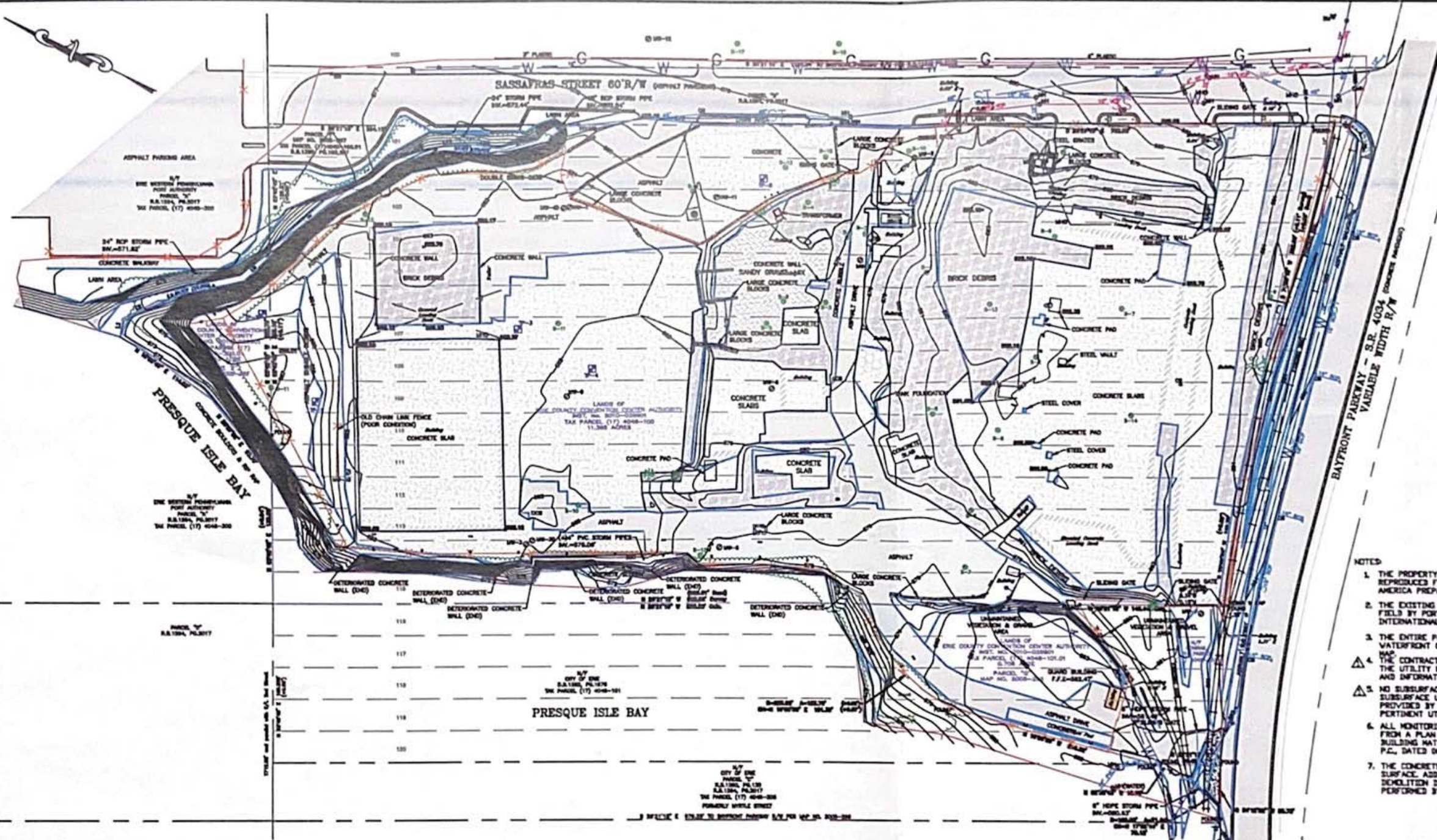


Act 2 Final Report
Former GAF Site
218 Bayfront Parkway
Erie, Pennsylvania
Project No.: 3410110844

amec
Environment & Infrastructure - Pittsburgh
800 North Bell Avenue
Carnegie, Pennsylvania 15106

Post-Remediation
Site Plan (June 2014)
Figure: 3

P:\PROJECTS\Erie County Convention Authority\3410110844 - GAF Remediation\CADD\FINAL\RA - April 2012\Fig 3 Existing Conds.dwg Thu, 31 May 2012 - 12:36pm nancy.loggett



- LEGEND**
- ▲ UTILITY POLE
 - UTILITY POLE ANCHOR
 - ⊕ LIGHT POLE
 - OVERHEAD ELECTRIC
 - UNDERGROUND ELECTRIC
 - EXISTING FENCE
 - ⊕ HYDRANT
 - ⊕ VALVE
 - WATERLINE
 - EXISTING MANHOLE
 - SANITARY SEWER
 - EXISTING CATCH BASIN
 - ⊕ GAS WELL (APPARENT)
 - GAS LINE
 - SUBJECT PROPERTY LINE
 - PROPERTY LINE
 - STREAM / WATER EDGE
 - STORM SEWER
 - ▲ EXISTING SPOT ELEVATION
 - ▲ ISP FIND
 - ▲ PROPERTY CORNER
 - ▲ REBAR WITH CAP
 - ▲ SIGNAL POLE
 - ▲ BENCHMARK
 - ▲ EXISTING TREE
 - EDGE OF WOODED AREA
 - EXISTING CONTOURS
 - ▲ EXISTING SIGN
 - ▲ MONITORING WELL LOCATION
 - ▲ SOIL BORING
 - ▲ TEST PIT
 - ▲ BORING LOCATION
 - BRICK DEBRIS
 - CONCRETE SLAB
 - ASPHALT PAVEMENT

- NOTES**
1. THE PROPERTY BOUNDARY INFORMATION SHOWN (e.g. DISTANCES AND BEARINGS) ON THIS DRAWING WERE REPRODUCED FROM A ALTA/ACCN LAND TITLE SURVEY FOR BUILDING MATERIALS CORPORATION OF AMERICA PREPARED BY SANFORD SURVEYING & ENGINEERING, P.C., DATED 12/4/2008.
 2. THE EXISTING CONTOURS AND PHYSICAL FEATURES SHOWN ON THIS DRAWING WERE DETERMINED IN THE FIELD BY PORTER CONSULTING ENGINEERS, P.C./P.C./THE ELEVATIONS SHOWN ARE BASED ON INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD.85).
 3. THE ENTIRE PARCEL SUBJECT OF THIS LAND DEVELOPMENT IS LOCATED WITHIN THE WATERFRONT COMMERCIAL (CVD) ZONING DISTRICT AS SHOWN ON THE CITY OF ERIE ZONING MAP.
 4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITY LINE LOCATIONS. THE UTILITY LINE LOCATIONS SHOWN ON THIS PLAN WERE OBSERVED FROM FIELD EVIDENCE AND INFORMATION PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE.
 5. NO SUBSURFACE UTILITY LOCATIONS WERE DETERMINED BY PORTER CONSULTING ENGINEERS, P.C. THE SUBSURFACE UTILITIES SHOWN ON THIS PLAN ARE BASED ON VISIBLE MARKINGS AND INFORMATION PROVIDED BY UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL PERTINENT UTILITIES LOCATED PRIOR TO BEGINNING CONSTRUCTION.
 6. ALL MONITORING WELL, SOIL BORING, TEST PIT, AND BORING LOCATIONS SHOWN WERE REPRODUCED FROM A PLAN TITLED "AS-BUILT LOCATIONS OF MONITORING WELLS, SOIL BORINGS & TEST PITS FOR BUILDING MATERIALS CORPORATION OF AMERICA" PREPARED BY SANFORD SURVEYING & ENGINEERING, P.C., DATED 06/24/2009, REVISED 12/08/2010.
 7. THE CONCRETE SLABS AND FOUNDATIONS SHOWN REPRESENT ONLY WHAT IS VISIBLE ON THE SURFACE. ADDITIONAL FOUNDATIONS, SLABS, AND OTHER STRUCTURES MAY BE LOCATED BENEATH THE DEMOLITION DEBRIS LOCATED THROUGHOUT THE SITE. NO SUBSURFACE INVESTIGATIONS WERE PERFORMED BY PC2 TO IDENTIFY BURIED STRUCTURES.

EXISTING CONDITIONS PLAN

PROPERTY LINE TABLE

LINE	BEARING	DISTANCE
L1	N 70°00'12" E	14.68'
L2	S 53°30'37" E	40.54'
L3	S 35°05'09" E	88.20'
L4	S 40°44'07" E	59.80'
L5	S 68°01'36" E	38.49'
L6	N 63°49'43" E	9.44'
L7	S 64°16'04" E	108.47'
L8	S 59°26'47" E	42.37'
L9	S 51°32'32" E	24.01'
L10	S 43°12'40" E	25.65'
L11	S 32°16'04" E	33.17'
L12	S 18°01'02" E	44.43'
L13	S 42°08'20" E	32.32'
L14	S 67°28'49" E	25.00'

ZONING INFORMATION
 ZONING AUTHORITY: CITY OF ERIE
 ZONING DISTRICT: WATERFRONT COMMERCIAL DISTRICT (CVD)
 MINIMUM LOT SIZE/AREA PER FAMILY: 1,000 SQ.FT.
 MAXIMUM LOT COVERAGE: 35%
 EXCLUSIVE OF ROOFLESS DECKS IN GROUND POOLS & ROOFLESS WALKWAYS

BUILDING SETBACKS
 MINIMUM DEPTH OF FRONT YARD SETBACK:
 MINIMUM DISTANCE BETWEEN ANY STREET PROPERTY LINE AND ANY GARAGE DOORS FACING THE SAME SHALL BE 20 FEET WITH A CLEAR UNOBSTRUCTED TRIANGLE AREA EXTENDING 5 FEET ON EITHER SIDE OF THE GARAGE DOOR AT THE STREET PROPERTY LINE AND 5 FEET DEEP.

MINIMUM WIDTH REAR YARD SETBACK: N/A
 MINIMUM WIDTH SIDE YARD SETBACK: N/A
 MINIMUM WIDTH LEAST SIDE YARD SETBACK: N/A
 MAXIMUM HEIGHT OF STRUCTURE: 50 FEET

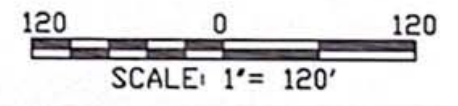
APPURTENANCES TO BUILDINGS, CHIMNEYS, STACKS, ELEVATOR BULKHEADS, PENHOUSES, GAS OR WATER TOWERS, COOLING TOWERS, STAGE TOWERS OR SCENERY LOFTS, ELECTRIC SIGNS, WIRELESS TOWERS, AND OTHER NECESSARY MEDICAL APPURTENANCES, WHERE PERMITTED BY BUILDING CODE AND USE REGULATIONS, AND ERECTED UPON AND AS AN INTEGRAL PART OF THE BUILDING, OR A MONUMENT, SHAFT, SPIRE, DOME, TOWER, IF ERECTED FOR MONUMENTAL PURPOSES ONLY, MAY BE ERECTED OR EXTEND ABOVE THE HEIGHT LIMIT OF THE DISTRICT, PROVIDED THAT ANY SUCH STRUCTURE SHALL SET BACK FROM THE VERTICAL PLANE OF THE PERMITTED BUILDING LINE ONE (1) FOOT HORIZONTALLY FOR EACH TWO (2) FEET OF EXTRA HEIGHT.

MAXIMUM No. OF STORIES: N/A

PROPERTY ADDRESS
 216 BAYFRONT PARKWAY
 ERIE, PA 16507

CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL

PA1
 SYSTEM, INC.
 POCH SERIAL NUMBER
 20112852569
 1-800-242-1778

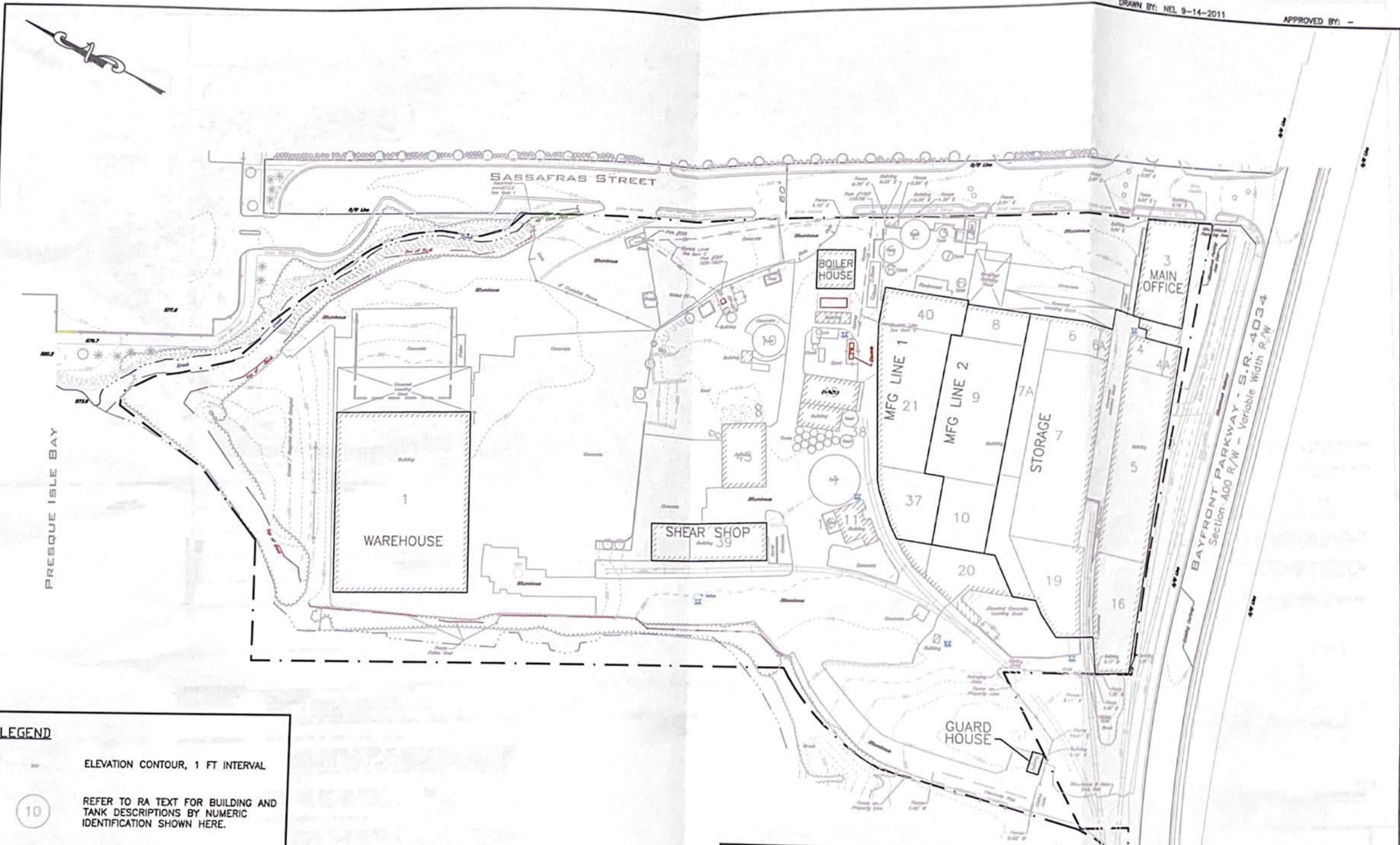


Ref: PC Engineers, E12510-1116-M(Rev1-EM1), October 2012.

Act 2 Risk Assessment Report Former GAF Site 218 Bayfront Parkway Erie, Pennsylvania Project No.: 3410110844	 Environment & Infrastructure - Pittsburgh 800 North Bell Avenue Carnegie, Pennsylvania 15106 2200 Georgetown Drive Swackley, Pennsylvania 15143	Existing Conditions Site Plan Figure: 3 <div style="text-align: right; font-size: 24pt; font-weight: bold;">3</div>
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P:\PROJECTS\Erie County Convention Authority\3410110844 - GAF Remediation\CADD\FINAL\RA - April 2012\Fig 2 Site Plan.dwg Thu, 31 May 2012 - 12:36pm nancy.loggattula

Fig 3



LEGEND

ELEVATION CONTOUR, 1 FT INTERVAL

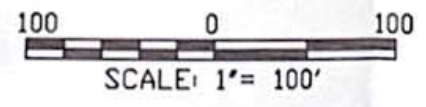


REFER TO RA TEXT FOR BUILDING AND TANK DESCRIPTIONS BY NUMERIC IDENTIFICATION SHOWN HERE.

NOTES:

- AS OF FALL 2010, ALL STRUCTURES AND TANKS DEMOLISHED EXCEPT FOR GUARD HOUSE AT BAYFRONT PARKWAY ENTRANCE. FLOOR SLABS AND FOUNDATIONS REMAIN.

Ref: Sanford Surveying & Engineering, P.C., f-base.dwg, revised 11-3-2010.



Act 2 Risk Assessment Report
 Former GAF Site
 218 Bayfront Parkway
 Erie, Pennsylvania
 Project No.: 3410110844

Environment & Infrastructure - Pittsburgh
 800 North Bell Avenue
 Carnegie, Pennsylvania 15106
 2206 Georgetown Drive
 Sewickley, Pennsylvania 15143

Historical Site Plan Map
 (Pre-2010 Demolition)
 Figure: 2



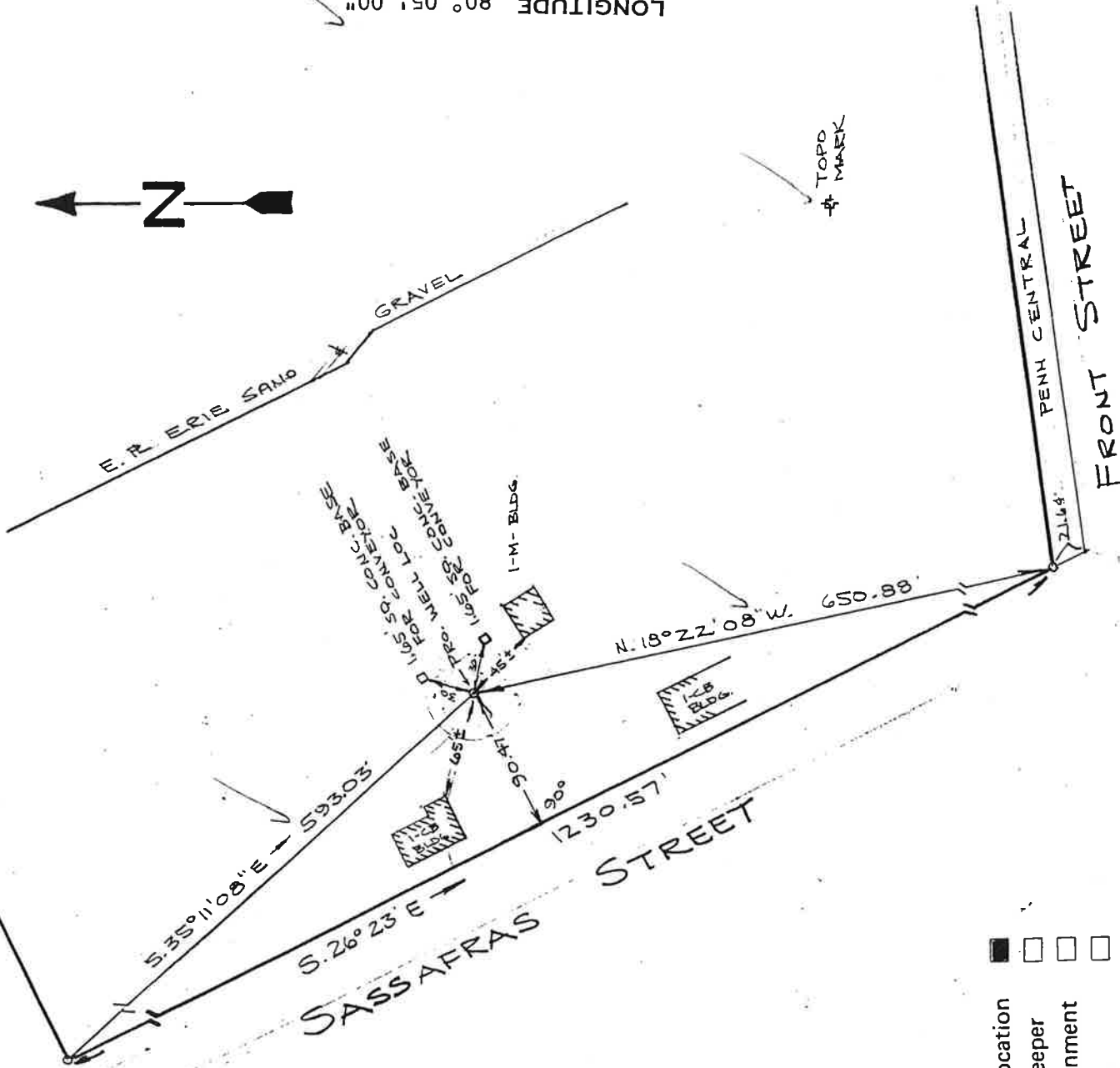
APPENDIX 4

State Agency Documentation

1.	4.2.1 DEP File Review (Erie Sand & Gravel)
-----------	---

LATITUDE 42° 10' 00" ✓

LONGITUDE 80° 05' 00" ✓



- New Location
- Drill Deeper
- Abandonment
- Re-Drill

Keith L. Branton D/B/A
 Company Erie Sand & Gravel Co.
 Address P.O. Box 153, Erie, Pa. 16512
 Farm Erie Sand & Gravel Co.
 Tract - Acres 12+ Lease No. -
 Well (Farm) No. 1 Co. Serial No. -
 Angle of Deviation, if any -
 Elevation 582 Quadrangle Erie North ✓
 City of Erie ✓ County Erie
 Engineer or Surveyor David James Laird
 Registration No. 6283-E
 File No. C-4049-401
 Date March 30, 1984
 Scale 1" = 100'

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES
 BUREAU OF OIL AND GAS REGULATION
 PITTSBURGH, PENNSYLVANIA 15222

WELL LOCATION MAP

Dept. File No. ER-23901

Denotes Values of Well on United States Topographic Maps.

Scale 15' (7 1/2')

WORKABLE COAL SEAMS, IF ANY

NAME OF SEAM	OWNER OF SEAM

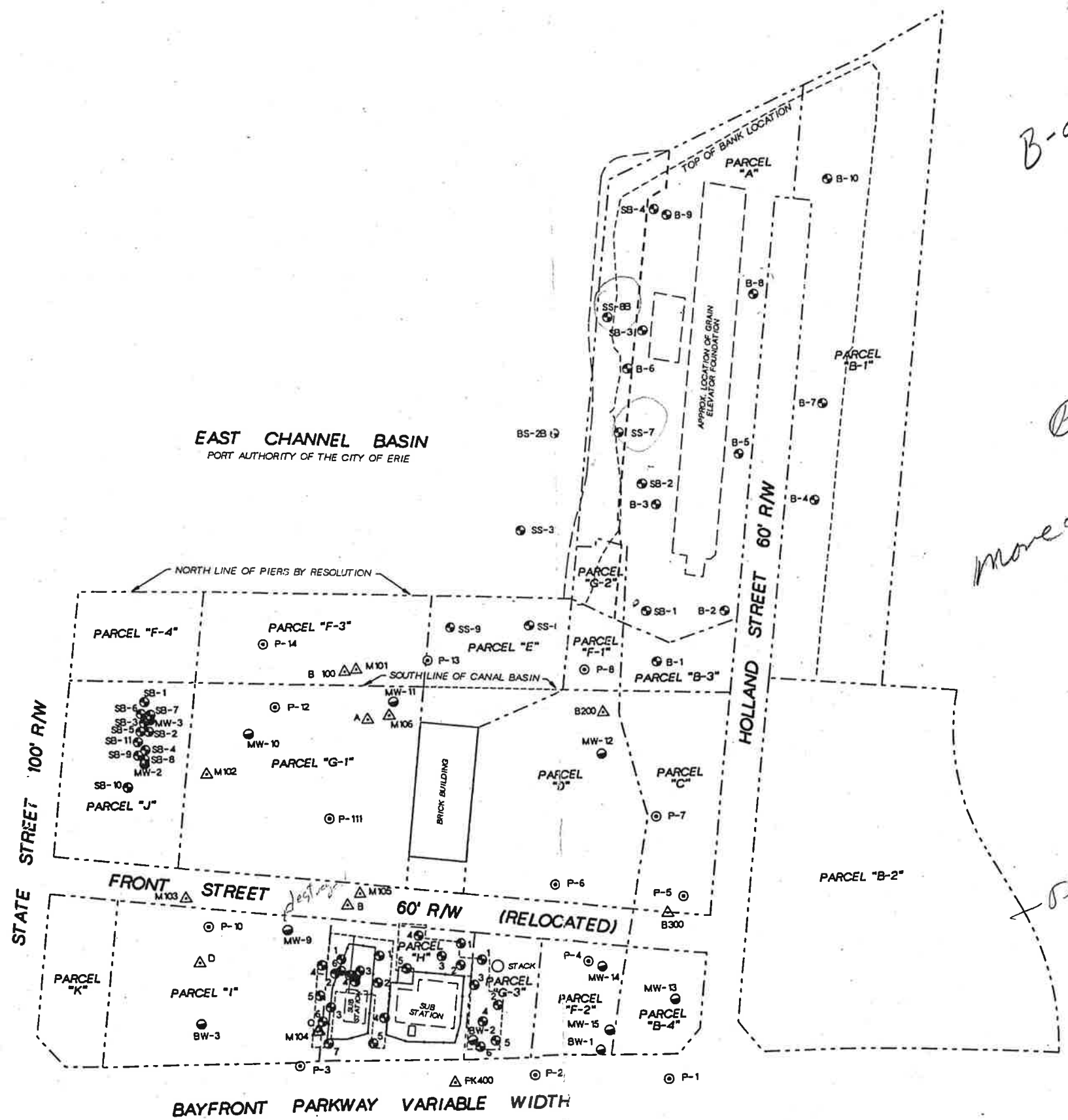
Handwritten note: Feb. 24/1984



APPENDIX 4

State Agency Documentation

1.	4.2.1 DEP File Review (PENELEC/FRONT ST)
-----------	---



*B - are any corp of
Engineers Boring
Sediment Boring*

*Plot 2 on H-I rip!
move on G-1 + J quick
As
SB = UD
7 UD*

Shelter?



NO.	DATE	REVISION	BY	APVD

REUSE OF DOCUMENTS
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF C.M. HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF C.M. HILL.

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SHEET	
DWG NO.	
DATE	FEB 1997
PROJ NO.	139777

PRELIMINARY

July 1, 1993

Ms. Susan Frye
Storage Tank Coordinator
Department of Environmental Resources
1012 Water Street
Meadville, PA 19336

Re: **Front Street AGST
Facility #25-16342**

Dear Ms. Frye:

Attached is the "Amended" Storage Tank Registration Form for our Front Street Station you requested. The removal date shown is January of 1992, which is approximate. As we discussed on June 28:

1. The tanks were taken out of service, drained, and cleaned in February of 1991 following the shutdown of the station in January of 1991.
2. The station was turned over to a contractor for decommissioning in 1991. They removed and scrapped all of the aboveground storage tanks between late 1991 and early 1992. We have used the removal date of January 1992 as an approximately removal date for all tanks.

Also attached is a copy of the corrected invoice we returned to the Division of Storage Tanks in Harrisburg in late 1991. Please contact me if you require any additional information or clarification on this issue.

Sincerely yours,



Donald A. Goodman
Environmental Scientist Sr.

trc

Attachments

DAG0146.WP

RECEIVED

JUL 06 1993

ENVIRONMENTAL RESOURCES
Meadville Regional Office

INTRODUCTION

This report is to provide documentation of activities and present the findings associated with the permanent closure by removal of one(1) single walled steel, 14000 gallon, underground storage tank(UST), used for storage of heating fuel. The UST was owned/operated by Pennsylvania Electric Company(Penelec), 1001 Broad Street, Johnstown, Pennsylvania. Physical location of the UST was the Front Street Generating Station, Front and State Street, Erie, Erie County, Pennsylvania. Geographic location is indicated on Map 1. Facility ID number as listed with Pennsylvania Department of Environmental Resources is 2-516342.

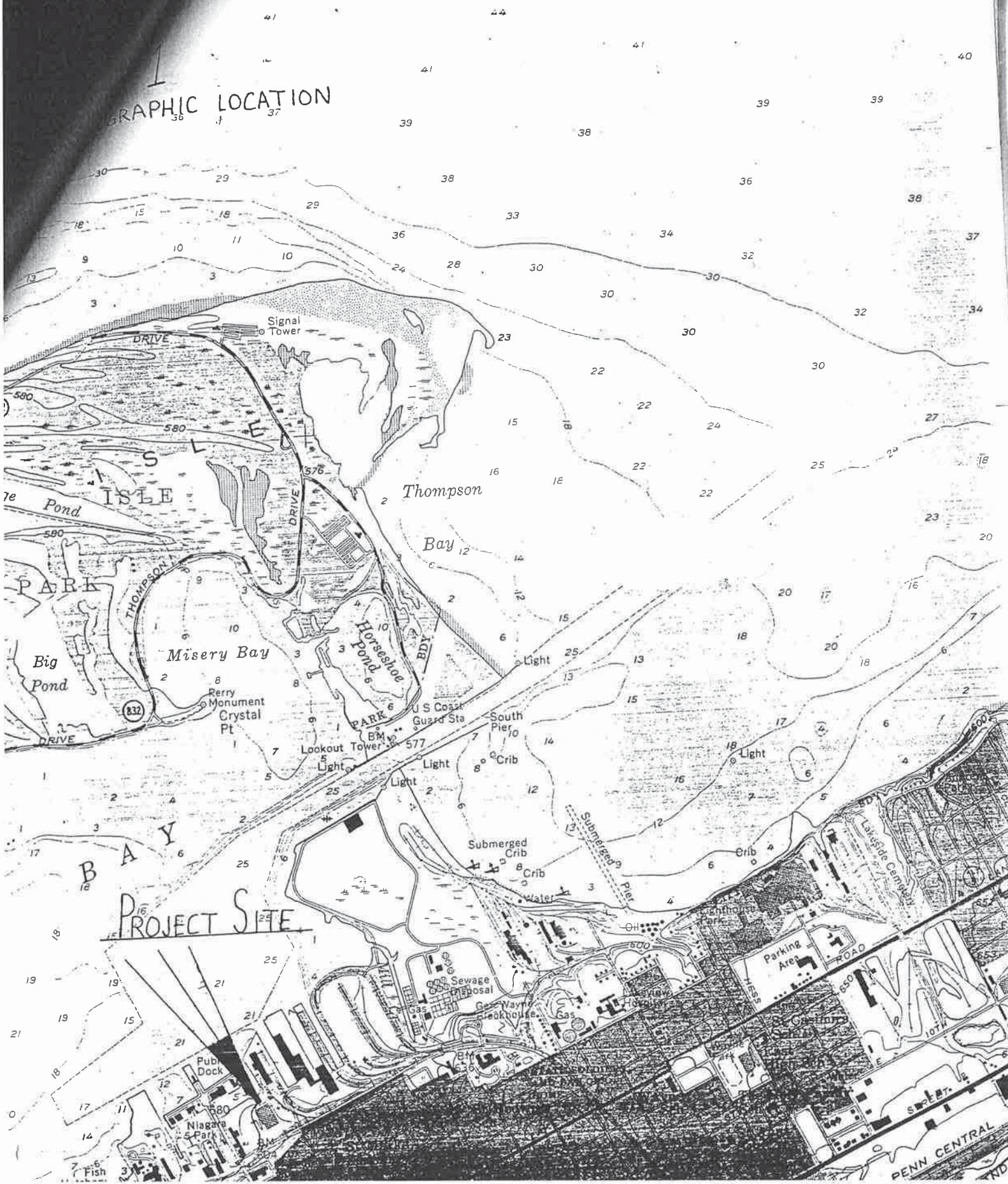
This report pertains only to the activity involved with the direct removal of the UST. Follow-up assessment will be conducted by Penelec and their consultants according to previously made arrangements.

Tank removal, cleaning and disposal operations were conducted by Afton Trucking and Excavating, 7616 Knoyle Road, Erie, Pennsylvania. C.A. Thompson, R.D.#8 Box 68, Meadville Pennsylvania was subcontracted as certified intaller and to prepare required closure report, Certification Number 002713.

SITE DESCRIPTION/HISTORY

E R I E

GRAPHIC LOCATION



FRONT ST. GENERATING STATION
FRONT STREET, ERIE, ERIE COUNTY
PENNSYLVANIA

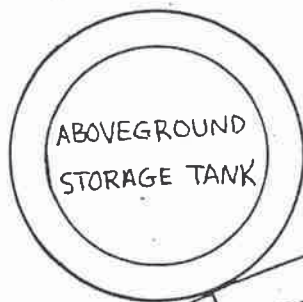
FIELD SKETCH

anticipated groundwater flow direction

LAKE ERIE APPROX. 120°

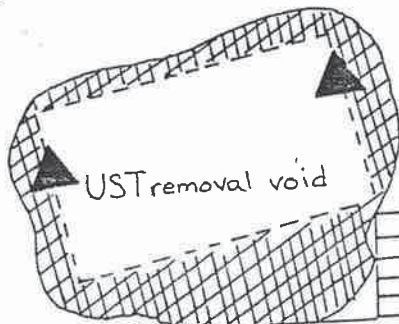


grassy area



CONCRETE DIKE

railroad spurline



SETTLING POND No 2

House Bldg.

LEGEND

- piezometer well
- ▲ sample location
- ▨ observed contamination

APPROXIMATE SCALE
one inch equals twenty feet

10 20 30

NOTICE OF INTENT TO REMEDIATE

Name Front Street Station, Community Boating Property (Parcel - J)

Site Address North of Front St, Western Property Borders State Street

Location ERIE, PA. (WARD 4)

Municipality CITY OF ERIE County ERIE

Latitude 42 ° 08 ' 12 " Longitude 80 ° 05 ' 16 "

How determined USGS 7.5 Minute Topographic MAP (ERIE North, PA Quad)

Identification Number _____

Contaminated Media and Contaminants Present: (check all applicable)

	Soil	Groundwater	Surface Water	Sediment
PCBs				
Lead				
Heavy Metals				
Pesticides				
Dioxin				
Solvents				
* BTEX	X	X		
PHCs				
PAHs				
Undetermined				

Sources of Contamination: Industrial Process _____ Impoundment _____ Landfill _____
Contaminated Soil X Drums/Containers _____ Storage Tanks (not regulated by Act 32) _____
Waste Pile _____ Other _____

Cleanup Standard Proposed: Background _____ Statewide Health X Site-Specific _____
Special Industrial Area: _____

Anticipated Future Use: Residential X Recreational _____
Non-Residential _____ Industrial _____ Commercial _____ Agricultural _____

* soils include Gasoline Short-List (BTEX, MTBE, 1,2-Dibromoethane, 1,2-Dichloroethane, Ethylbenzene, Isopropylbenzene, Naphthalene, Benzo(a)Anthracene, Benzo(a)pyrene)

Anticipated Date of Submission of Plan or Final Report 8/12/97

Name of newspaper and date of publication of NIR Summary. Newspaper Erie Daily Times

Date of publication 8/6/97

Ownership History (for Special Industrial Areas only):

Proposed Remediation:
No further remediation required, based on past remediation of groundwater and soils. Current sampling analysis of soils indicates all pollutants are below statewide Health standards.

Benefits of Future Use:

Current development plans included as Bayfront Development Project.

Property Owner Name Pennsylvania Electric Company (d/b/a GPU Energy) Address 2800 Pottsville Pike Reading, PA. 19640

Remediator Name Same Address Same

Preparer of Notice of Intent to Remediate:

Name Eric S. Romano Signature [Signature]

Title Environmental Consultant Date 8/4/97 Telephone (610) 921-6504

Address GPU Energy 2800 Pottsville Pike, Reading, PA. 19640



Pennsylvania Electric Company

1001 Broad Street
Johnstown Pennsylvania 15907
814 533-8111

Writer's Direct Dial Number

(814) 533-8413

March 17, 1993

CERTIFIED MAIL

Mr. Dan Hegburg
Bureau of Water Quality Management
Department of Environmental Resources
1012 Water Street
Meadville, PA 16335

Re: **Front Street Quarterly Report**

Dear Mr. Hegburg:

Attached are three copies of the "Quarterly Progress Status Report - Penelec Front Street Station - Erie, PA" prepared in February of 1993. It details the progress to date of the bioremediation project that is treating diesel fuel soil and water contamination at the station.

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

Yours truly,

Donald A. Goodman
Environmental Scientist Sr. I

trc

Attachments

RECEIVED
MAR 22 1993
ENVIRONMENTAL RESOURCES
Meadville Regional Office

FIELD OPERATIONS - WATER QUALITY MANAGEMENT

1012 Water Street
Meadville, Pennsylvania 16335
Telephone: A. C. 814/332-6942
Fax: A. C. 814/332-6831
November 12, 1992

Mr. Donald Goodman
Penelec
1001 Broad Street
Johnstown, PA 15907

Dear Mr. Goodman:

This is in reference to Mr. Valentine's letter of November 11, 1992, including a survey of the Penelec Front Street Station area. My discussion with Mr. Valentine and Mr. Waltz, and subsequent review of this submittal, indicates that areas of concern at this site have been excavated and backfilled with noncontaminated soil. It is my understanding that additional investigations or remediation in this area of the site would primarily address groundwater conditions and the relocation of Front Street would not hamper these activities. However, any unknown environmental problem encountered during the relocation of Front Street could require additional investigation or remediation.

The Department, therefore, has no objections to the proposed relocation of Front Street provided that the above mentioned groundwater investigation is not affected and the ongoing investigation/remediation of other areas at the site may continue.

Please contact the Department to discuss final monitoring well locations, a sampling schedule, and sampling parameters.

Sincerely,

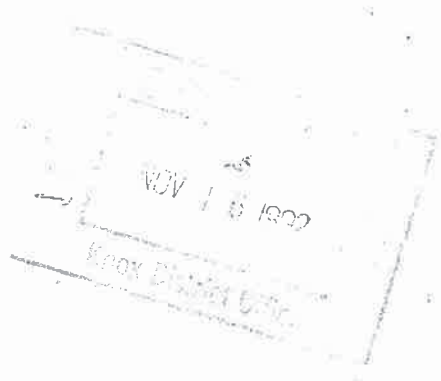


Daniel F. Peterson
Regional Monitoring and
Compliance Manager
Northwest Region

DFP/bg/dmt

cc: Larry Valentine
Mike Waltz

bc: Dan Peterson
File
Joe Williams
Don Hegburg



**Quarterly Progress Status Report
Pennsylvania Electric Company
Front Street Station
Erie, Pennsylvania**

February, 1993

RECEIVED

MAR 22 1993

**ENVIRONMENTAL RESOURCES
Headville Regional Office**



particularly the recovery well and monitoring well 7 is probably due to microbial biomass.

The increase in TPH seen in monitoring wells 5 and 8 may have several causes. The breakdown of heavy, polycyclic aromatic compounds by microbes may release lower molecular weight, more soluble compounds to dispersal by groundwater. A surfactant effect is documented in the literature which includes an increase in TPH levels with an increase in microbial degradation of target compounds. Adsorbed or otherwise held hydrocarbons may be released by fluctuating groundwater levels or other subsurface conditions. The increase in TPH in monitoring wells 5 and 8 may in part be attributed to migration of contaminated water from south and east of monitoring wells 5 and 8 toward the recovery well.

Dissolved oxygen concentrations have increased in the recovery well. Dissolved oxygen is low but stable in monitoring wells 5 and 8. The utilization of available dissolved oxygen is probably responsible for the low but stable levels.

SYSTEM EFFECTIVENESS

Soils and groundwater have been effectively remediated in subsurface areas in contact with the modified water table produced by recovery and reinjection of ground water. Areas where the water table has been close to the surface have been remediated. These areas are adjacent to the injection wells.

Central portions of the site are clean below the modified water table. Areas in the central portion of the site from 3 to 7 feet below the surface may require additional remediation. These areas were excluded from treatment by modification of the ground water surface. The reduction of the groundwater recovery rate from 15 to 5 gallons per minute has also reduced the volume of material within the cone of depression.



APPENDIX 4

State Agency Documentation

1.	4.2.1 DEP File Review
2.	Soil Survey

CSX Bayfront

Approved?
ask Gerald

Environmental Covenant

When recorded, return to: John "Casey" Wells
Erie County Convention Center Authority
809 French Street, Erie, PA 16501

The Property consists of two tax parcels, which have Erie County Tax Parcel Index Nos.(17) 4048-207 and (17) 4048-102, respectively.

GRANTOR: Erie County Convention Center Authority
PROPERTY ADDRESS: 218 West Bayfront Parkway, Erie, PA 16501

ENVIRONMENTAL COVENANT

This Environmental Covenant is executed pursuant to the Pennsylvania Uniform Environmental Covenants Act, Act No. 68 of 2007, 27 Pa. C.S. §§ 6501 – 6517 (UECA). This Environmental Covenant subjects the Property identified in Paragraph 1 to the activity and/or use limitations in this document. As indicated later in this document, this Environmental Covenant has been approved by the Pennsylvania Department of Environmental Protection (Department).

1. **Property affected.** The Property affected by this Environmental Covenant is located in the City of Erie, Erie County, Pennsylvania.

The postal street address of the Property is: 218 West Bayfront Parkway, Erie, PA 16501. The latitude and longitude of the center of the Property affected by this Environmental Covenant is: Lat. 42deg. 08' 3.84" Long. 80 deg 05' 39.12".

The Property has been known by the following name(s): Former CSX Site. The DEP Primary Facility ID# is 765682

A complete description of the Property is attached to this Environmental Covenant as Exhibit A. A map of the Property is attached to this Environmental Covenant as Exhibit B.

2. **Property Owner / GRANTOR / GRANTEE.** The Erie County Convention Center Authority (ECCCA) is the owner of the Property and the GRANTOR and GRANTEE of this Environmental Covenant.

3. **The mailing address of the owner is:** Erie County Convention Center Authority, 809 French Street, Erie, PA 16501.

4. **Description of Contamination & Remedy.** ECCCA submitted a Notice of Intent to Remediate (NIR) the Site to the Act 2 Site Specific Standard (SSS) to the Pennsylvania Department of Environmental Protection (PADEP) on April 26, 2013 and

made appropriate public notifications. The City of Erie did not request a Public Involvement Plan. A combined Act 2 Remedial Investigation/Risk Assessment and Cleanup Plan was submitted to PADEP in June 2013; Amec Foster Wheeler's response to technical deficiencies was submitted to PADEP in October 2013, and PADEP approved the document on January 2, 2014. PADEP has assigned the Site Preliminary Facility ID # 765682.

The entire CSX Site is approximately 1.58 acres of level ground extending west from Sassafras Street for approximately 1,600 feet along the Bayfront Parkway and adjacent to both the GAF site and Erie City Water Authority property which are north. The CSX Site was used for railroad purposes since at least the late 1800's until CSX removed the tracks in 2013. The Site is located in a historically highly industrialized part of the City of Erie that was serviced by the railroad.

Because of the CSX Site's past non-residential use, and the different future uses of the immediately adjacent properties (the City of Erie Water Authority property is non-residential and the former GAF Site may be residential), it is determined appropriate and logical to separate the CSX Site into two parts, CSX East and CSX West (Exhibit B).

The City of Erie has an ordinance prohibiting the use of groundwater. Concentrations of arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and dibenz(a,h)anthracene in several soil samples from the CSX East Parcel (Exhibit B) exceeded the respective Act 2 Residential Non-Use Aquifer Soil Medium Specific Concentrations (MSCs). Arsenic was detected in one sample from the CSX West Parcel that exceeded the Act 2 Residential Non-Use Aquifer Soil MSC.

Groundwater analytical data from MW-1 indicate that the concentration of dissolved iron in groundwater samples from MW-1 exceeded the Secondary Maximum Contaminant Level (SMCL) for dissolved iron of 300 µg/l. No other Residential Non-Use Aquifer MSCs were exceeded in groundwater.

The CSX RI concluded that the source of impacted soil was likely historic railroad operations, and; impacted soil and groundwater are not migrating from the CSX Site. The results of the risk assessment indicate that the PADEP cumulative risk management benchmarks of 1E-04 for carcinogens was exceeded for the potential future resident child based on total risk from exposure to Site soils. Based on these results and the intended future land use of the CSX East Parcel as residential and CSX West Parcel as non-residential, a cleanup plan was implemented that included covering the CSX East Parcel with a marker layer and one foot of clean cover. The CSX West Parcel will remain non-residential as required by Activity & Use Limitations of Section 5, below; and as a non-residential use, it does not need a cover similar to the CSX East Parcel.

5. **Activity & Use Limitations.** The CSX East Property is subject to the following activity and use limitations, which the then current owner of the Property, and its tenants, agents, employees and other persons under its control, shall abide by:

- The groundwater beneath the Site shall not be used for any purpose;
- Subsurface structures such as basements shall not be constructed on Site;
- The cover system shall be maintained as described in the Post Remediation Care Plan presented in the Act 2 Final Report.

The CSX West Property is subject to the following activity and use limitations, which the then current owner of the Property, and its tenants, agents, employees and other persons under its control, shall abide by:

- The Site shall not be used for any residential purpose; and
- The groundwater beneath the Site shall not be used for any purpose.

6. **Notice of Limitations in Future Conveyances.** Each instrument hereafter conveying any interest in the Property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of this Environmental Covenant.

7. **Compliance Reporting.** After written request by the Department, the then current owner of the Property shall submit to the Department written documentation stating whether or not the activity and use limitations in this Environmental Covenant are being abided by. In addition, within 1 month after any of the following events, the then current owner of the Property shall submit, to the Department, written documentation of:

- Noncompliance with the activity and use limitations in this Environmental Covenant;
- Transfer of the Property;
- Changes in use of the Property; or
- Filing of applications for building permits for the Property and any proposals for any site work, if the building or proposed site work will affect the contamination on the Property subject to this Environmental Covenant.”

8. **Access by the Department.** In addition to any rights already possessed by the Department, this Environmental Covenant grants to the Department a right of reasonable access of the Property in connection with implementation or enforcement of this Environmental Covenant.

9. **Recording & Proof & Notification.** Within 30 days after the date of the Department’s approval of this Environmental Covenant, the Erie County Convention Center Authority shall file this Environmental Covenant with the Recorder of Deeds for each County in which the Property is located, and send a file-stamped copy of this Environmental Covenant to the Department within 60 days of recording. Within that time period, the Erie County Convention Center Authority also shall send a file-stamped copy to each of the following: the City of Erie and Erie County; any Holder identified in this Environmental Covenant listed in Paragraph 3.

10. **Termination or Modification.**

(a) This Environmental Covenant may only be terminated or modified in accordance with 27 Pa. C.S. §§ 6509 or 6510, or in accordance with this paragraph.

(b) This Environmental Covenant may be amended or terminated as to any portion of the Property that is acquired for use as state highway right-of-way by the Commonwealth provided that: (1) the Department waives the requirements for an environmental covenant and for conversion pursuant to 27 Pa. C.S. §6517 to the same extent that this Environmental Covenant is amended or terminated; (2) the Department determines that termination or modification of this Environmental Covenant will not adversely affect human health or the environment; and (3) the Department provides 30-days advance written notice to the current property owner, each holder, and, as practicable, each person that originally signed the Environmental Covenant or successors in interest to such persons.

(c) This Environmental Covenant shall terminate upon attainment, in accordance with 35 P.S. §§ 6026.101 – 6026.908, with an unrestricted use remediation standard for the above-described contamination at the Property. The Department must approve, in writing, of such termination.

(d) In accordance with 27 Pa. C.S. § 6510(a)(3)(i), Grantor hereby waives the right to consent to any amendment or termination of the Environmental Covenant by consent; it being intended that any amendment to or termination of this Environmental Covenant by consent in accordance with this Paragraph requires only the following signatures on the instrument amending or terminating this Environmental Covenant: (i) the Holder at the time of such amendment or termination; (ii) the then current owner of the Property and (iii) the Department.

11. **Department's address.** Communications with the Department regarding this Environmental Covenant shall be sent to:

Anita Stainbrook
Northwest Regional Environmental Cleanup Manager PADEP
230 Chestnut St.
Meadville, PA 16335

12. **Severability.** The paragraphs of this Environmental Covenant shall be severable and should any part hereof be declared invalid or unenforceable, the remainder shall continue in full force and effect between the parties.

ACKNOWLEDGMENTS by Owner(s) and any Holder(s), in the following form:

Erie County Convention Center Authority , Grantor

Date:

By: _____
John A. (Casey) Wells
Executive Director

APPROVED, by Commonwealth of Pennsylvania,
Department of Environmental Protection

Date:

By: _____
Anita M. Stainbrook
Regional Manager
Environmental Cleanup and Brownfield Program

COMMONWEALTH OF PENNSYLVANIA)

)

COUNTY OF ERIE)

) SS:

On this _____ day of May 2016, before me, the undersigned officer, personally appeared John A. (Casey) Wells, Executive Director of the Owner/Grantor who acknowledged himself/herself to be the person whose name is subscribed to this Environmental Covenant, and acknowledged that s/he executed same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

Notary Public

COMMONWEALTH OF PENNSYLVANIA)

)

COUNTY OF CRAWFORD)

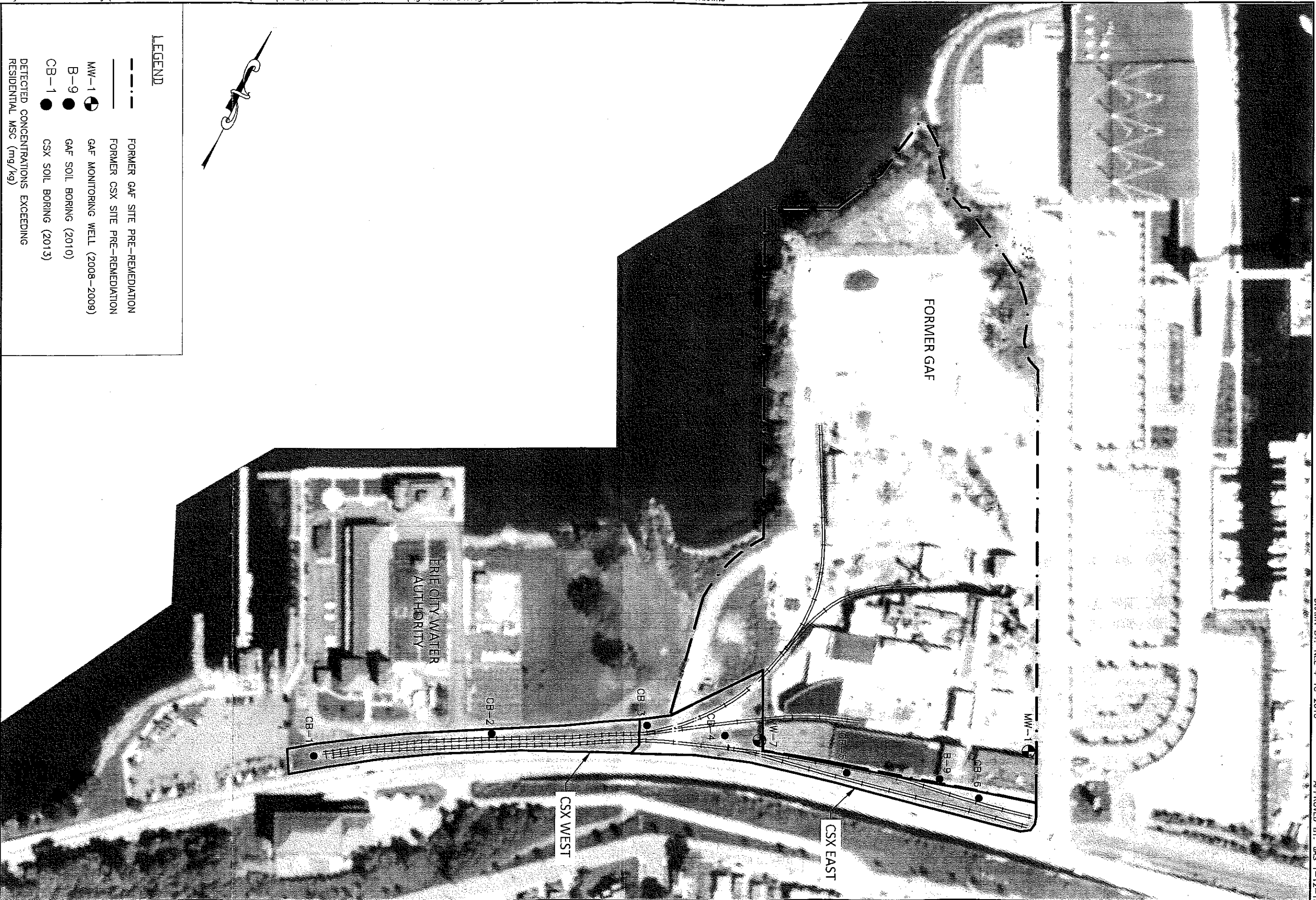
)

SS:

On this [redacted] day of May 2016, before me, the undersigned officer, personally appeared Anita M. Stainbrook, who acknowledged himself/herself to be the Regional Manager, Environmental Cleanup and Brownfield Program of the Commonwealth of Pennsylvania, Department of Environmental Protection, Northwest Regional Office, whose name is subscribed to this Environmental Covenant, and acknowledged that s/he executed same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

Notary Public



DRAWN BY: NEL 4-18-2013

APPROVED BY: JAS 1-12-15

LEGEND

- FORMER GAF SITE PRE-REMEDIATION
- FORMER CSX SITE PRE-REMEDIATION
- MW-1 GAF MONITORING WELL (2008-2009)
- B-9 GAF SOIL BORING (2010)
- CB-1 CSX SOIL BORING (2013)
- DETECTED CONCENTRATIONS EXCEEDING RESIDENTIAL MSC (mg/kg)

Scale is Approximate
 160 0 160
 SCALE: 1" = 160'

Former CSX Bayfront Site
 Bayfront Parkway
 Erie, Pennsylvania

Project No.: 3410110844



Environment & Infrastructure
 501 North Bell Avenue
 Carnegie, Pennsylvania 15106

Act 2 Final Report
 Soil Boring Locations
 and Data Map

Figure: 2



Web Soil Report



United States
Department of
Agriculture

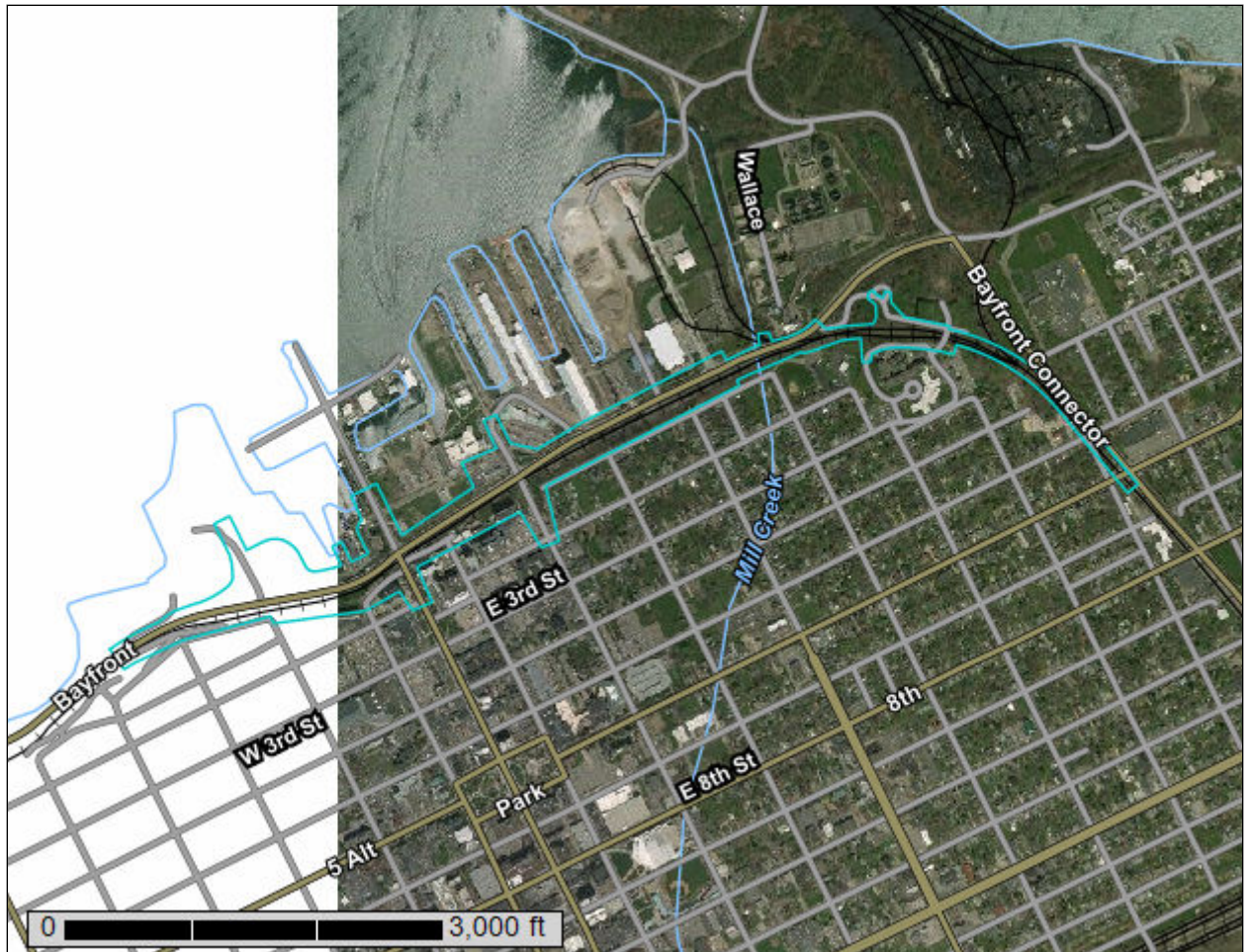
NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Erie County, Pennsylvania

Bayfront Parkway Central Corridor Improvement Project



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

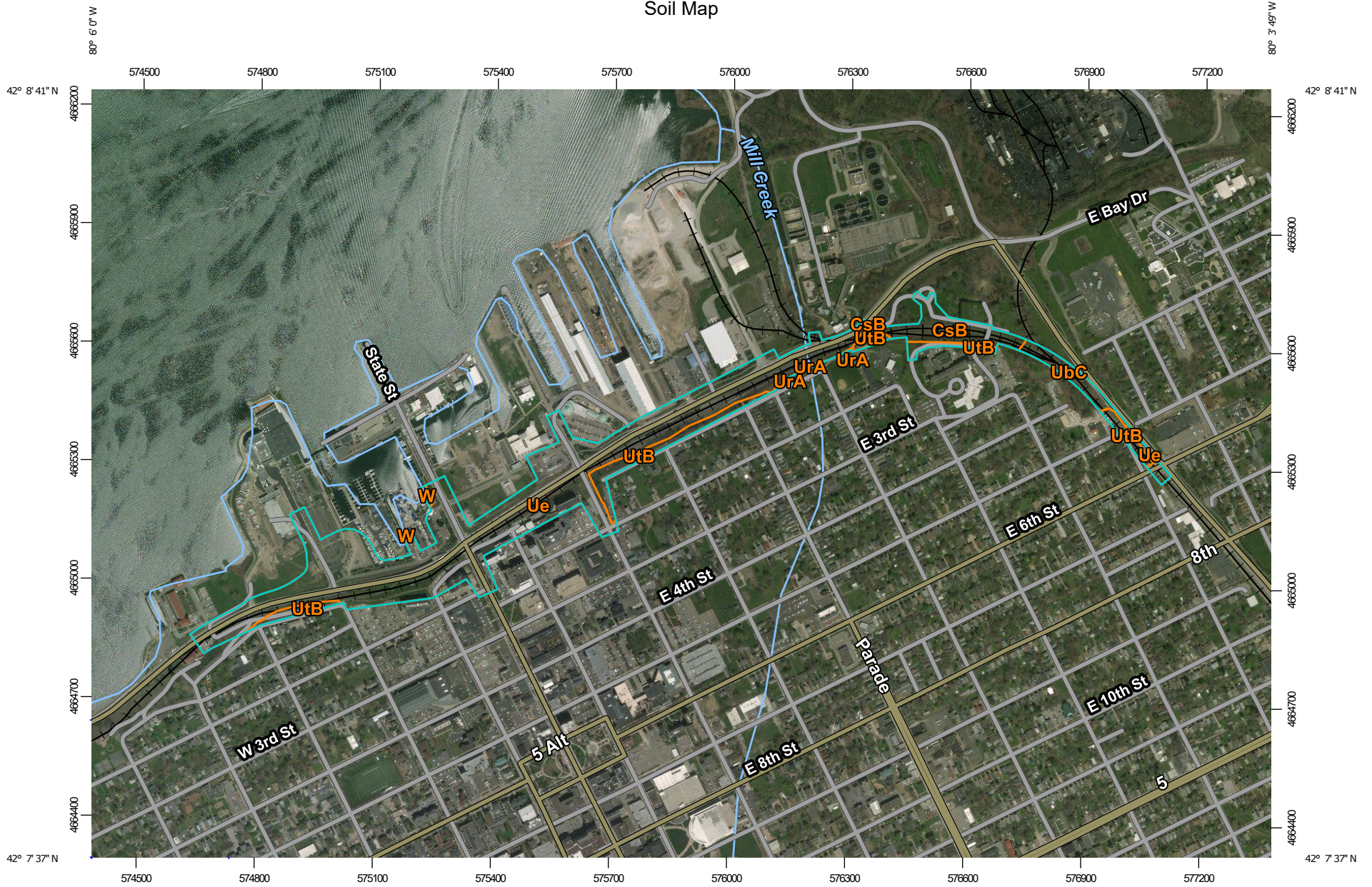
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

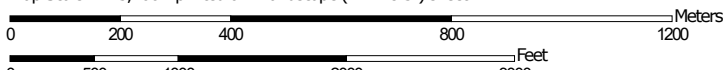
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Map Scale: 1:13,700 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, Pennsylvania
 Survey Area Data: Version 17, Sep 17, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—May 5, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CsB	Colonie loamy fine sand, 3 to 8 percent slopes	5.0	7.6%
UbC	Udorthefts, sandy, 0 to 15 percent slopes	2.3	3.4%
Ue	Urban land	51.4	77.9%
UrA	Urban land-Red Hook complex, 0 to 3 percent slopes	0.1	0.2%
UtB	Urban land-Tyner-Harborcreek complex, 0 to 8 percent slopes	7.0	10.6%
W	Water	0.2	0.3%
Totals for Area of Interest		66.0	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it

Custom Soil Resource Report

was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Erie County, Pennsylvania

CsB—Colonie loamy fine sand, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2rg6r
Elevation: 150 to 1,000 feet
Mean annual precipitation: 37 to 49 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 160 to 190 days
Farmland classification: Farmland of local importance

Map Unit Composition

Colonie and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Colonie

Setting

Landform: Dunes on beach ridges on lake plains
Landform position (two-dimensional): Backslope, shoulder, summit, footslope
Landform position (three-dimensional): Base slope, side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Aeolian sands and sandy glaciolacustrine deposits

Typical profile

Ap - 0 to 11 inches: loamy fine sand
E and Bt - 11 to 46 inches: fine sand
C - 46 to 80 inches: fine sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (2.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: A
Ecological site: Dry Acidic Till Plains (F139XY005OH)
Hydric soil rating: No

Minor Components

Elnora

Percent of map unit: 9 percent

Custom Soil Resource Report

Landform: Longshore bars (relict) on lake plains, beach ridges on lake plains, deltas on lake plains

Landform position (two-dimensional): Backslope, shoulder, summit

Landform position (three-dimensional): Side slope, interfluvium, crest, rise, flat

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Hydric soil rating: No

Harborcreek

Percent of map unit: 4 percent

Landform: Beach ridges on lake plains, longshore bars (relict) on lake plains, beach plains on lake plains

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Crest, side slope, base slope

Down-slope shape: Linear

Across-slope shape: Convex

Hydric soil rating: No

Minoa

Percent of map unit: 2 percent

Landform: Deltas on lake plains

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Tread

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

UbC—Udorthents, sandy, 0 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2rg80

Elevation: 0 to 180 feet

Mean annual precipitation: 37 to 49 inches

Mean annual air temperature: 46 to 50 degrees F

Frost-free period: 120 to 200 days

Farmland classification: Not prime farmland

Map Unit Composition

Udorthents, sandy, and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents, Sandy

Setting

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Reclaimed material from gravel mining

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Typical profile

A - 0 to 4 inches: very gravelly sandy loam
C - 4 to 28 inches: very gravelly loamy coarse sand
2C - 28 to 80 inches: extremely gravelly loamy sand

Properties and qualities

Slope: 0 to 15 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 2.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: Dry Acidic Till Plains (F139XY005OH)
Hydric soil rating: No

Ue—Urban land

Map Unit Setting

National map unit symbol: 2rg7w
Elevation: 800 to 1,500 feet
Mean annual precipitation: 36 to 49 inches
Mean annual air temperature: 41 to 58 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Setting

Down-slope shape: Linear
Across-slope shape: Linear

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Udorthents

Percent of map unit: 10 percent
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

UrA—Urban land-Red Hook complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2rg86
Elevation: 800 to 1,500 feet
Mean annual precipitation: 36 to 49 inches
Mean annual air temperature: 41 to 58 degrees F
Frost-free period: 100 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 55 percent
Red hook and similar soils: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Setting

Down-slope shape: Linear
Across-slope shape: Linear

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Description of Red Hook

Setting

Landform: Outwash terraces, lake plains
Landform position (two-dimensional): Footslope, backslope, shoulder, summit
Landform position (three-dimensional): Tread, rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Coarse-loamy glaciofluvial deposits

Typical profile

Ap - 0 to 11 inches: silt loam
Bw - 11 to 35 inches: gravelly loam

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C - 35 to 80 inches: gravelly coarse sandy loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat poorly drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)

Depth to water table: About 6 to 12 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Moderate (about 6.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: B/D

Ecological site: Moist Acidic Slopes (F139XY004OH)

Hydric soil rating: No

Minor Components

Fredon

Percent of map unit: 10 percent

Landform: Depressions on outwash terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: Yes

Udorthents

Percent of map unit: 5 percent

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

UtB—Urban land-Tyner-Harborcreek complex, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2rg83

Elevation: 570 to 1,000 feet

Mean annual precipitation: 37 to 49 inches

Mean annual air temperature: 46 to 50 degrees F

Frost-free period: 100 to 190 days

Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 50 percent

Harborcreek and similar soils: 25 percent

Tyner and similar soils: 20 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Setting

Down-slope shape: Linear

Across-slope shape: Linear

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Description of Harborcreek

Setting

Landform: Beach ridges on lake plains, beach plains on lake plains

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Crest, side slope, base slope

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Outwash reworked as gravelly beach deposits

Typical profile

Ap - 0 to 12 inches: gravelly coarse sandy loam

Bw - 12 to 18 inches: gravelly coarse sandy loam

C - 18 to 80 inches: very gravelly loamy coarse sand

Properties and qualities

Slope: 0 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (2.00 to 20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: A

Ecological site: Dry Acidic Till Plains (F139XY005OH)

Hydric soil rating: No

Description of Tyner

Setting

Landform: Longshore bars (relict) on lake plains, beach ridges on lake plains, beach plains on lake plains

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Landform position (two-dimensional): Shoulder, backslope, footslope, summit

Landform position (three-dimensional): Side slope, base slope, crest

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Beach deposits or sandy outwash

Typical profile

Ap - 0 to 8 inches: coarse sandy loam

Bw - 8 to 17 inches: sandy loam

C - 17 to 80 inches: coarse sand

Properties and qualities

Slope: 0 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2s

Hydrologic Soil Group: A

Ecological site: Dry Acidic Till Plains (F139XY005OH)

Hydric soil rating: No

Minor Components

Elnora

Percent of map unit: 5 percent

Landform: Longshore bars (relict) on lake plains, beach ridges on lake plains, deltas on lake plains

Landform position (two-dimensional): Shoulder, summit, backslope

Landform position (three-dimensional): Side slope, interfluvium, crest, rise, flat

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Hydric soil rating: No

W—Water

Map Unit Setting

National map unit symbol: 2rg8d

Mean annual precipitation: 36 to 50 inches

Mean annual air temperature: 46 to 59 degrees F

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Frost-free period: 120 to 214 days

Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Water

Setting

Parent material: Rivers streams ponds

Properties and qualities

Runoff class: Negligible

Frequency of ponding: Frequent

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Land Classifications

Land Classifications are specified land use and management groupings that are assigned to soil areas because combinations of soil have similar behavior for specified practices. Most are based on soil properties and other factors that directly influence the specific use of the soil. Example classifications include ecological site classification, farmland classification, irrigated and nonirrigated land capability classification, and hydric rating.

Hydric Rating by Map Unit

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

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Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Custom Soil Resource Report Map—Hydric Rating by Map Unit




Map Scale: 1:13,700 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84







MAP LEGEND

Area of Interest (AOI)







 Area of Interest (AOI)

Soils







Soil Rating Polygons

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


Soil Rating Lines

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






Soil Rating Points

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Erie County, Pennsylvania
 Survey Area Data: Version 17, Sep 17, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—May 5, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CsB	Colonie loamy fine sand, 3 to 8 percent slopes	0	5.0	7.6%
UbC	Udorthents, sandy, 0 to 15 percent slopes	0	2.3	3.4%
Ue	Urban land	0	51.4	77.9%
UrA	Urban land-Red Hook complex, 0 to 3 percent slopes	10	0.1	0.2%
UtB	Urban land-Tyner- Harborcreek complex, 0 to 8 percent slopes	0	7.0	10.6%
W	Water	0	0.2	0.3%
Totals for Area of Interest			66.0	100.0%

Rating Options—Hydric Rating by Map Unit

Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

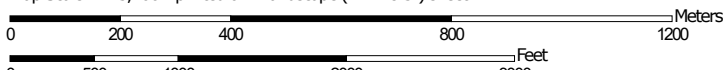
Farmland Classification

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Custom Soil Resource Report Map—Farmland Classification



Map Scale: 1:13,700 if printed on A landscape (11" x 8.5") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

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
MAP LEGEND








Area of Interest (AOI)






 Area of Interest (AOI)








Soils



Soil Rating Polygons

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season









-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of statewide importance, if drained
-  Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if irrigated

-  Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if irrigated and drained
-  Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
-  Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60







































-  Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if warm enough
-  Farmland of statewide importance, if thawed
-  Farmland of local importance
-  Farmland of local importance, if irrigated

-  Farmland of unique importance
-  Not rated or not available

Soil Rating Lines

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

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	Prime farmland if subsoiled, completely removing the root inhibiting soil layer		Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium		Farmland of unique importance		Prime farmland if subsoiled, completely removing the root inhibiting soil layer
	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60		Farmland of statewide importance, if irrigated and drained		Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season		Not prime farmland		Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
	Prime farmland if irrigated and reclaimed of excess salts and sodium		Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season		Prime farmland if drained		Prime farmland if irrigated and reclaimed of excess salts and sodium
	Farmland of statewide importance		Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season		Prime farmland if protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance
	Farmland of statewide importance, if drained		Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer		Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer		Prime farmland if irrigated		Farmland of statewide importance, if drained
	Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60		Farmland of statewide importance, if warm enough		Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
	Farmland of statewide importance, if irrigated				Farmland of statewide importance, if thawed		Prime farmland if irrigated and drained		Farmland of statewide importance, if irrigated
					Farmland of local importance		Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season		
					Farmland of local importance, if irrigated				

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<ul style="list-style-type: none"> Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if irrigated and drained Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 	<ul style="list-style-type: none"> Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season Farmland of statewide importance, if warm enough Farmland of statewide importance, if thawed Farmland of local importance Farmland of local importance, if irrigated 	<ul style="list-style-type: none"> Farmland of unique importance Not rated or not available <p>Water Features</p> <ul style="list-style-type: none"> Streams and Canals <p>Transportation</p> <ul style="list-style-type: none"> Rails Interstate Highways US Routes Major Roads Local Roads <p>Background</p> <ul style="list-style-type: none"> Aerial Photography 	<p>The soil surveys that comprise your AOI were mapped at 1:12,000.</p> <p>Please rely on the bar scale on each map sheet for map measurements.</p> <p>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)</p> <p>Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: Erie County, Pennsylvania Survey Area Data: Version 17, Sep 17, 2019</p> <p>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</p> <p>Date(s) aerial images were photographed: Dec 31, 2009—May 5, 2016</p> <p>The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.</p>
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Table—Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CsB	Colonie loamy fine sand, 3 to 8 percent slopes	Farmland of local importance	5.0	7.6%
UbC	Udorthents, sandy, 0 to 15 percent slopes	Not prime farmland	2.3	3.4%
Ue	Urban land	Not prime farmland	51.4	77.9%
UrA	Urban land-Red Hook complex, 0 to 3 percent slopes	Not prime farmland	0.1	0.2%
UtB	Urban land-Tyner-Harborcreek complex, 0 to 8 percent slopes	Not prime farmland	7.0	10.6%
W	Water	Not prime farmland	0.2	0.3%
Totals for Area of Interest			66.0	100.0%

Rating Options—Farmland Classification

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

References

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

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United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf



APPENDIX 5

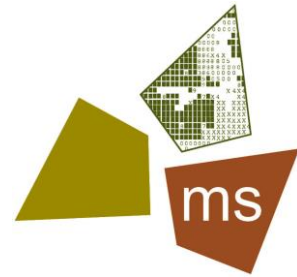
Local Agency Documentation

1.	City of Erie Fire Department
2.	City of Erie Police Department
3.	Erie County Hazardous Materials Response Team
4.	City of Erie Planning Commission
5.	Erie County Planning Commission
6.	PA Department of Military and Veterans Affairs
7.	Western Pennsylvania Port Authority
8.	PADEP File Review

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Akron, Ohio 44308
p 330.258.9920
f 330.258.9921
www.msconsultants.com



December 3, 2019

Erie City Fire Department
Attn: Guy Santone, Chief
626 State Street, Room 509
Erie, PA 16501
(814) 870-1400

**RE: Available Agency File Review Request
Phase I Environmental Site Assessment**

Dear Mr. Santone,

Our office is conducting an environmental study on behalf of our client, PennDOT District 1-0 relative to the proposed Bayfront Parkway Central Corridor Improvements Project. The Bayfront Parkway Central Corridor Improvements are intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. To accomplish these goals, alternatives that are being considered include:

- Grade separated intersection between State Street and Bayfront Parkway. This will reduce congestion, improve mobility, and significantly improve safety while at the same time enhancing multi-modal connections between the community and the waterfront.
- Roundabouts along the Bayfront Parkway at Sassafra Street Extension and Holland Street. These improvements are also aimed to reduce congestion and improve safety as well as increasing intersection capacity while simultaneously calming/slowing traffic.
- Shared Use Trails. Additional connections between neighborhoods, downtown, and the waterfront aim to improve mobility and integrate the Bayfront Parkway with downtown and the adjacent neighborhoods.

We are requesting to review any available and/or archived information on potential site contamination, hazardous materials, or other recognized environmental conditions. A questionnaire of environmental conditions is enclosed. Please fill out and return the questionnaire in the provided stamped, addressed envelope.

If information is available for review, we are willing to discuss at your convenience. However, if files are not available, please notify us. Additional information can be found on the project's website at www.BayfrontParkwayProject.com. Should you have any questions regarding this request, please feel free to contact me at (412) 264-8701.

Sincerely,

A handwritten signature in black ink, appearing to read 'David Galloway', written over a white background.

David Galloway
Environmental Planner

Location:
Name:
Position:
Contact Info:

Please complete and return to:
David Galloway
Airport Office Park 4
Second Floor
333 Rouser Rd, Moon, PA 15108
412-264-8701
dgalloway@msconsultants.com

Environmental Questionnaire

Are you aware of the prior use of the subject property, i.e., any previous development, undeveloped? If so, please describe.

How long has this company owned/rented this property? Who is the owner?

Do you have Underground Storage Tanks (USTs)? Leaking USTs (LUSTs)? Aboveground Storage Tanks (ASTs)? Please describe the location, if possible.

Are there currently or have there ever been any pits, ponds or lagoons on the subject property utilized in connection with waste treatment or waste disposal?

Are you currently aware of or have there ever been any hazardous substances, petroleum products, tires, car or industrial batteries, pesticides, other chemicals or waste materials on the site? Do you know if any have been dumped, buried, or burned on the site?

Are you aware of any past or current spills or other chemical releases that have taken place at the site?

Are you aware, based on your knowledge of the site, if there are any obvious indicators that point to the presence or likely presence of contamination at the site?

Do you have any electrical transformers, capacitors, or switchgear? Which utility company provides the service?

Has there ever been any environmental violations or investigated activities? When? Who conducted it? What was the outcome?

Has the site ever been used as a dump site, fill area, or disposal facility (landfill, pit, or pond)?

Do you have any industrial drums (approximately 55 gallons) on the site?

Are there currently or are you aware if there have ever previously been any current evidence of leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the subject property?

Has the subject property ever been tested for the presence of asbestos containing materials (ACM)? If so, what was the outcome of the test?

Has the subject property ever been tested for the presence of radon? If so, what was the outcome of the test?

Has the subject property ever been tested for the presence of lead based paint (LBP)? If so, what was the outcome of the test?

COMMENTS/ADDITIONAL INFORMATION (If necessary, please provide any additional relevant environmental information that has not been discussed above

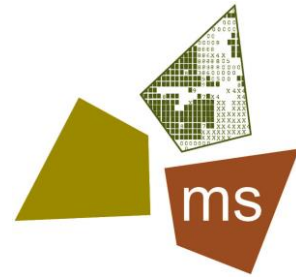


No Response

ms consultants, inc.

engineers, architects, planners

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140 South Main Street, Suite 140
Akron, Ohio 44308
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f 330.258.9921
www.msconsultants.com



December 3, 2019

Erie Police Department
Attn: Dan Spizarny, Chief
626 State Street, Room 111
Erie, PA 16501
(814) 870-1113

**RE: Available Agency File Review Request
Phase I Environmental Site Assessment**

Dear Mr. Spizarny,

Our office is conducting an environmental study on behalf of our client, PennDOT District 1-0 relative to the proposed Bayfront Parkway Central Corridor Improvements Project. The Bayfront Parkway Central Corridor Improvements are intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. To accomplish these goals, alternatives that are being considered include:

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Sincerely,

A handwritten signature in black ink, appearing to read 'David Galloway', written over a white background.

David Galloway
Environmental Planner

Location:
Name:
Position:
Contact Info:

Please complete and return to:
David Galloway
Airport Office Park 4
Second Floor
333 Rouser Rd, Moon, PA 15108
412-264-8701
dgalloway@msconsultants.com

Environmental Questionnaire

Are you aware of the prior use of the subject property, i.e., any previous development, undeveloped? If so, please describe.

How long has this company owned/rented this property? Who is the owner?

Do you have Underground Storage Tanks (USTs)? Leaking USTs (LUSTs)? Aboveground Storage Tanks (ASTs)? Please describe the location, if possible.

Are there currently or have there ever been any pits, ponds or lagoons on the subject property utilized in connection with waste treatment or waste disposal?

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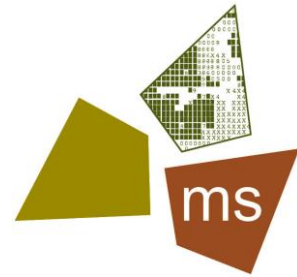


No Response

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engineers, architects, planners

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Akron, Ohio 44308
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December 3, 2019

Erie county Hazardous Materials Response Team
2880 Flower Rd,
Erie, PA 16509
(814) 451-7920

**RE: Available Agency File Review Request
Phase I Environmental Site Assessment**

To whom it may concern,

Our office is conducting an environmental study on behalf of our client, PennDOT District 1-0 relative to the proposed Bayfront Parkway Central Corridor Improvements Project. The Bayfront Parkway Central Corridor Improvements are intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. To accomplish these goals, alternatives that are being considered include:

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David Galloway
Environmental Planner

Location:
Name:
Position:
Contact Info:

Please complete and return to:
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Airport Office Park 4
Second Floor
333 Rouser Rd, Moon, PA 15108
412-264-8701
dgalloway@msconsultants.com

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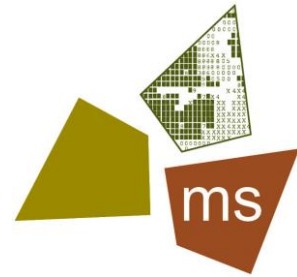


No Response

ms consultants, inc.

engineers, architects, planners

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140 South Main Street, Suite 140
Akron, Ohio 44308
p 330.258.9920
f 330.258.9921
www.msconsultants.com



December 3, 2019

City of Erie Planning Director
Attn: Kathy Wyrosdick
626 State Street, Room 500
Erie, PA 16501
(814) 870-1240

**RE: Available Agency File Review Request
Phase I Environmental Site Assessment**

Dear Mrs. Wyrosdick,

Our office is conducting an environmental study on behalf of our client, PennDOT District 1-0 relative to the proposed Bayfront Parkway Central Corridor Improvements Project. The Bayfront Parkway Central Corridor Improvements are intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. To accomplish these goals, alternatives that are being considered include:

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Sincerely,

A handwritten signature in black ink, appearing to read 'David Galloway', is written over a white background.

David Galloway
Environmental Planner

Location:
Name:
Position:
Contact Info:

Please complete and return to:
David Galloway
Airport Office Park 4
Second Floor
333 Rouser Rd, Moon, PA 15108
412-264-8701
dgalloway@msconsultants.com

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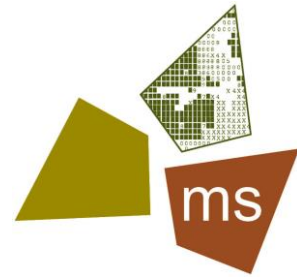


No Response

ms consultants, inc.

engineers, architects, planners

One Cascade Plaza
140 South Main Street, Suite 140
Akron, Ohio 44308
p 330.258.9920
f 330.258.9921
www.msconsultants.com



December 3, 2019

Erie County Department of Planning
Attn: Michael Guelcher
140 West Sixth Street
Erie, PA 16501
(814) 451-7335

**RE: Available Agency File Review Request
Phase I Environmental Site Assessment**

Dear Mr. Guelcher,

Our office is conducting an environmental study on behalf of our client, PennDOT District 1-0 relative to the proposed Bayfront Parkway Central Corridor Improvements Project. The Bayfront Parkway Central Corridor Improvements are intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. To accomplish these goals, alternatives that are being considered include:

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Sincerely,

A handwritten signature in black ink, appearing to read 'David Galloway', written over a white background.

David Galloway
Environmental Planner

Location:
Name:
Position:
Contact Info:

Please complete and return to:
David Galloway
Airport Office Park 4
Second Floor
333 Rouser Rd, Moon, PA 15108
412-264-8701
dgalloway@msconsultants.com

Environmental Questionnaire

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Do you have any electrical transformers, capacitors, or switchgear? Which utility company provides the service?

Has there ever been any environmental violations or investigated activities? When? Who conducted it? What was the outcome?

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Do you have any industrial drums (approximately 55 gallons) on the site?

Are there currently or are you aware if there have ever previously been any current evidence of leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the subject property?

Has the subject property ever been tested for the presence of asbestos containing materials (ACM)? If so, what was the outcome of the test?

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Has the subject property ever been tested for the presence of lead based paint (LBP)? If so, what was the outcome of the test?

COMMENTS/ADDITIONAL INFORMATION (If necessary, please provide any additional relevant environmental information that has not been discussed above)



COUNTY OF ERIE
DEPARTMENT OF HEALTH

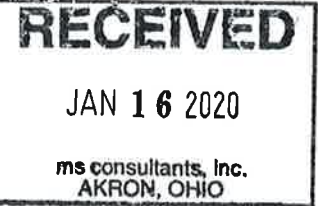


Public Health
Prevent. Promote. Protect.

Kathy Dahlkemper,
County Executive

Melissa Lyon, MPH, CPH
Director

January 13, 2020



Mr. David Galloway
MS Consultants, Inc.
One Cascade Plaza
140 South Main Street, Suite 140
Akron, OH 44308

RE: Environmental Reviews
Between State Street and Bayfront Parkway and
Bayfront Parkway at Sassafras Street Extension and Holland Street

Dear Mr. Galloway:

This letter is in response to the request for the following environmental reviews.

After a review of our files, we did not locate any history of environmental problems regarding the properties located between State Street and Bayfront Parkway. However, our files did indicate that illegal dumping of garbage and household trash did occur along the Bayfront from Holland Street to approximately Ash Street. Please feel free to contact this Department or DEP for more details.

If you have any other questions regarding this matter please feel free to contact me at 814/451-6772.

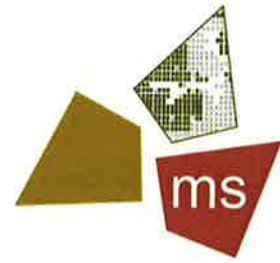
Sincerely,

Lisa Susann
Environmental Protection Specialist

ja

ms consultants, inc.
engineers, architects, planners

One Cascade Plaza
140 South Main Street, Suite 140
Akron, Ohio 44308
p 330.258.9920
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www.msconsultants.com



December 3, 2019

Greg Lehman
Project Manager
PA Department of Military and Veterans Affairs | Bureau of Veterans Homes
Building 0-10, Fort Indiantown Gap | Annville, PA 17003-5002
(717) 861.1266

**RE: Available Agency File Review Request
Phase I Environmental Site Assessment**

Dear Mr. Lehman,


Our office is conducting an environmental study on behalf of our client, PennDOT District 1-0 relative to the proposed Bayfront Parkway Central Corridor Improvements Project. The Bayfront Parkway Central Corridor Improvements are intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. To accomplish these goals, alternatives that are being considered include:

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Sincerely,


David Galloway
Environmental Planner

Location: PASSH/EEIC
Name: DMUH PASSH
Position: Project Manager
Contact Info: Greg Kehman
717-729-8522

Please complete and return to:
David Galloway
Airport Office Park 4
Second Floor
333 Rouser Rd, Moon, PA 15108
412-264-8701
dgalloway@msconsultants.com

Environmental Questionnaire

Are you aware of the prior use of the subject property, i.e., any previous development, undeveloped? If so, please describe. **NO**

How long has this company owned/rented this property? Who is the owner? **1885? Commonwealth of PA**

Do you have Underground Storage Tanks (USTs)? Leaking USTs (LUSTs)? Aboveground Storage Tanks (ASTs)? Please describe the location, if possible. **NO - USTs - Removed near maintenance Bldg, 2000 gallon.**

Are there currently or have there ever been any pits, ponds or lagoons on the subject property utilized in connection with waste treatment or waste disposal? **Retention Basin Rear of maintenance Bldg.**

Are you currently aware of or have there ever been any hazardous substances, petroleum products, tires, car or industrial batteries, pesticides, other chemicals or waste materials on the site? Do you know if any have been dumped, buried, or burned on the site? **Tires get dumped on the site. Facility cleans up tires 1 a month.**

Are you aware of any past or current spills or other chemical releases that have taken place at the site? **NO.**

Are you aware, based on your knowledge of the site, if there are any obvious indicators that point to the presence or likely presence of contamination at the site? **NO**

Do you have any electrical transformers, capacitors, or switchgear? Which utility company provides the service? **yes, switchgear, transformers, Penetec**

Has there ever been any environmental violations or investigated activities? When? Who conducted it? What was the outcome? **NO**

Has the site ever been used as a dump site, fill area, or disposal facility (landfill, pit, or pond)? **NO**

Do you have any industrial drums (approximately 55 gallons) on the site? **NO**

Are there currently or are you aware if there have ever previously been any current evidence of leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the subject property? **NO**

Has the subject property ever been tested for the presence of asbestos containing materials (ACM)? If so, what was the outcome of the test? **yes, nursing care building, Personal care facility. Floor tile & mastic - Removed during construction.**

Has the subject property ever been tested for the presence of radon? If so, what was the outcome of the test? *UNKNOWN*

Has the subject property ever been tested for the presence of lead based paint (LBP)? If so, what was the outcome of the test? *yes, LBP was found in the PCU Buildings.*

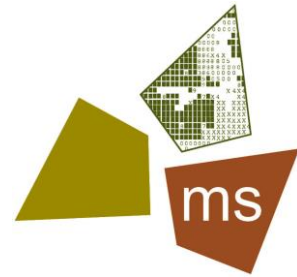
Paint was encapsulated.

COMMENTS/ADDITIONAL INFORMATION (If necessary, please provide any additional relevant environmental information that has not been discussed above)

ms consultants, inc.

engineers, architects, planners

One Cascade Plaza
140 South Main Street, Suite 140
Akron, Ohio 44308
p 330.258.9920
f 330.258.9921
www.msconsultants.com



December 3, 2019

Brenda A. Sandberg
Executive Director
Erie-Western Pennsylvania Port Authority
1 Holland Street
Erie, PA 16507
(814) 455-7557

**RE: Available Agency File Review Request
Phase I Environmental Site Assessment**

Dear Mrs. Sandberg,

Our office is conducting an environmental study on behalf of our client, PennDOT District 1-0 relative to the proposed Bayfront Parkway Central Corridor Improvements Project. The Bayfront Parkway Central Corridor Improvements are intended to maximize safety, improve congestion, reduce facility deficiencies, improve mobility through the corridor, and support the existing and future economic development initiatives in the region. To accomplish these goals, alternatives that are being considered include:

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- Shared Use Trails. Additional connections between neighborhoods, downtown, and the waterfront aim to improve mobility and integrate the Bayfront Parkway with downtown and the adjacent neighborhoods.

We are requesting to review any available and/or archived information on potential site contamination, hazardous materials, or other recognized environmental conditions. A questionnaire of environmental conditions is enclosed. Please fill out and return the questionnaire in the provided stamped, addressed envelope.

If information is available for review, we are willing to discuss at your convenience. However, if files are not available, please notify us. Additional information can be found on the project's website at www.BayfrontParkwayProject.com. Should you have any questions regarding this request, please feel free to contact me at (412) 264-8701.

Sincerely,


David Galloway
Environmental Planner

(1) South of Sassafras St Extension

&

(2) North west corner of Bayfront & State

&

Location: (3) South east corner of Bayfront & Holland

Name: John Mulligan

Position: Director of Operations

Contact Info: 814-455-7557 mulligan@porterie.org

Please complete and return to:
David Galloway
Airport Office Park 4
Second Floor
333 Rouser Rd, Moon, PA 15108
412-264-8701
dgalloway@msconsultants.com

Environmental Questionnaire

Are you aware of the prior use of the subject property, i.e., any previous development, undeveloped? If so, please describe.

No

How long has this company owned/rented this property? Who is the owner? *Erie-Western PA Port Authority*

(1) since 3/10/2005

(2) since 2/18/1994

(3) since 3/10/2005

Do you have Underground Storage Tanks (USTs)? Leaking USTs (LUSTs)? Aboveground Storage Tanks (ASTs)? Please describe the location, if possible.

No

Are there currently or have there ever been any pits, ponds or lagoons on the subject property utilized in connection with waste treatment or waste disposal?

No

Are you currently aware of or have there ever been any hazardous substances, petroleum products, tires, car or industrial batteries, pesticides, other chemicals or waste materials on the site? Do you know if any have been dumped, buried, or burned on the site?

Not to my knowledge

Are you aware of any past or current spills or other chemical releases that have taken place at the site?

No

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ms consultants, inc
Coraopolis, PA

Are you aware, based on your knowledge of the site, if there are any obvious indicators that point to the presence or likely presence of contamination at the site?

No

Do you have any electrical transformers, capacitors, or switchgear? Which utility company provides the service?

No

Has there ever been any environmental violations or investigated activities? When? Who conducted it? What was the outcome?

Not to my knowledge

Has the site ever been used as a dump site, fill area, or disposal facility (landfill, pit, or pond)?

Not to my knowledge

Do you have any industrial drums (approximately 55 gallons) on the site?

No

Are there currently or are you aware if there have ever previously been any current evidence of leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the subject property?

No

Has the subject property ever been tested for the presence of asbestos containing materials (ACM)? If so, what was the outcome of the test?

Not to my knowledge

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U.S. DEPARTMENT OF JUSTICE

FEDERAL BUREAU OF INVESTIGATION

Has the subject property ever been tested for the presence of radon? If so, what was the outcome of the test?

Not to my knowledge

Has the subject property ever been tested for the presence of lead based paint (LBP)? If so, what was the outcome of the test?

Not to my knowledge

COMMENTS/ADDITIONAL INFORMATION (If necessary, please provide any additional relevant environmental information that has not been discussed above)

I have included three properties on one questionnaire. All answers are the same for each property except length of ownership.



APPENDIX 6

Historical Information

1.	4.5.1 Fire & Insurance Map Review
2.	4.5.2 Aerial Photograph Review
3.	4.5.3 City Directory Review



On time. On target. In touch.™

Fire Insurance Map Abstract

Target Property:
Bayfront Parkway Improvement Project
Erie, PA 16507

Prepared For:
MS Consultants-Moon

Order #: 134806
Job #: 321090
Project #: 60-06808-03-05
Date #: 10/28/19

FIRE INSURANCE MAP ABSTRACT RESEARCH RESULTS

Report Date: 10/28/19
Order Number: 134806
Job Number: 321090
Site Address(es): Erie, PA 16507

This abstract is the result of a visual inspection of various Fire Insurance Map collections. Supporting documentation follows in the Appendix to validate our research. Use of this material is meant for research purposes only. Copyrighted Sanborn Maps can be purchased upon request.

Listed below, please find the results of our search for historic fire insurance maps

State	City	Date	Volume	Sheet Number(s)
PA	Erie	1970	1	84
PA	Erie	1970	1	83
PA	Erie	1970	1	52
PA	Erie	1970	1	51
PA	Erie	1970	1	50
PA	Erie	1970	1	43
PA	Erie	1970	1	12
PA	Erie	1970	1	11
PA	Erie	1970	1	10
PA	Erie	1970	1	9
PA	Erie	1970	1	1
PA	Erie	1966	3	398
PA	Erie	1966	3	322
PA	Erie	1966	3	313
PA	Erie	1966	3	305
PA	Erie	1966	3	303
PA	Erie	1966	3	302
PA	Erie	1965	3	398
PA	Erie	1965	3	322
PA	Erie	1965	3	313
PA	Erie	1965	3	305
PA	Erie	1965	3	303
PA	Erie	1965	3	302
PA	Erie	1965	1	84
PA	Erie	1965	1	83
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PA	Erie	1965	1	50
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PA	Erie	1964	3	322
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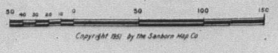
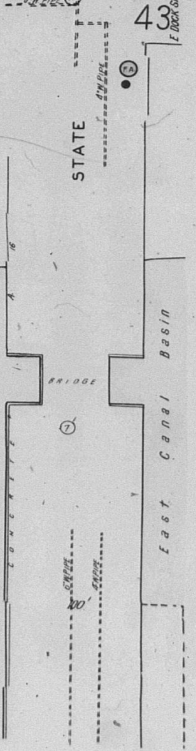
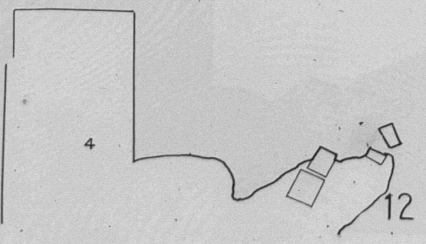
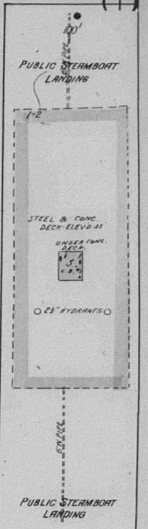
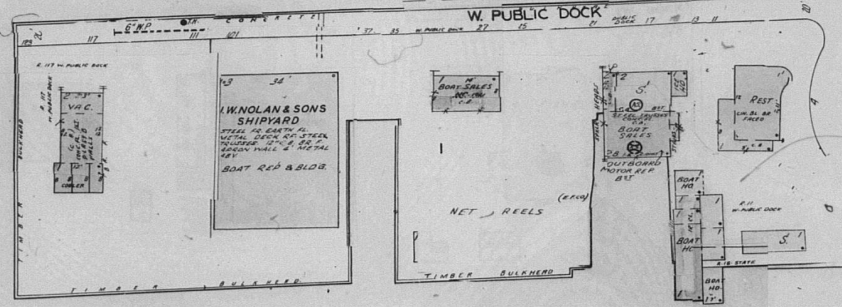
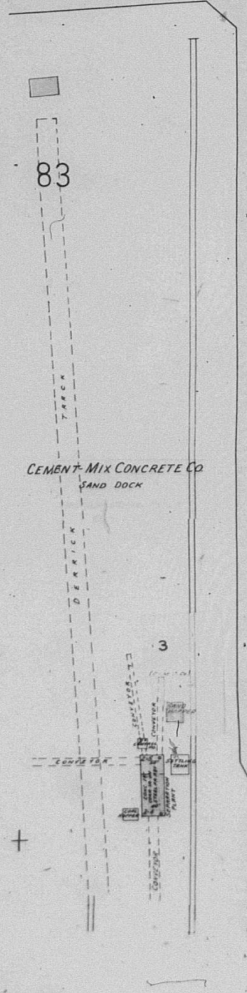
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Appendix
Supporting Documentation



Presque Isle Bay



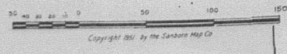
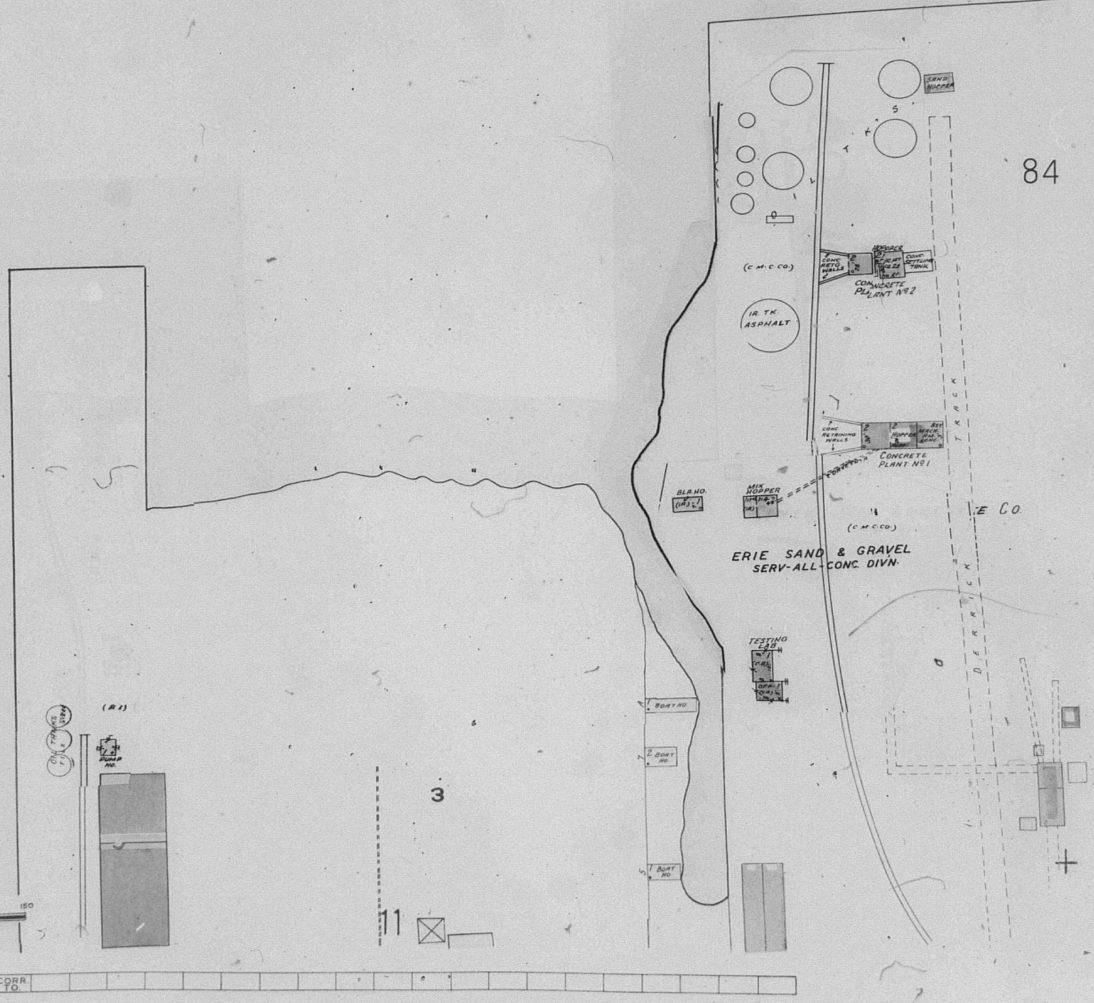
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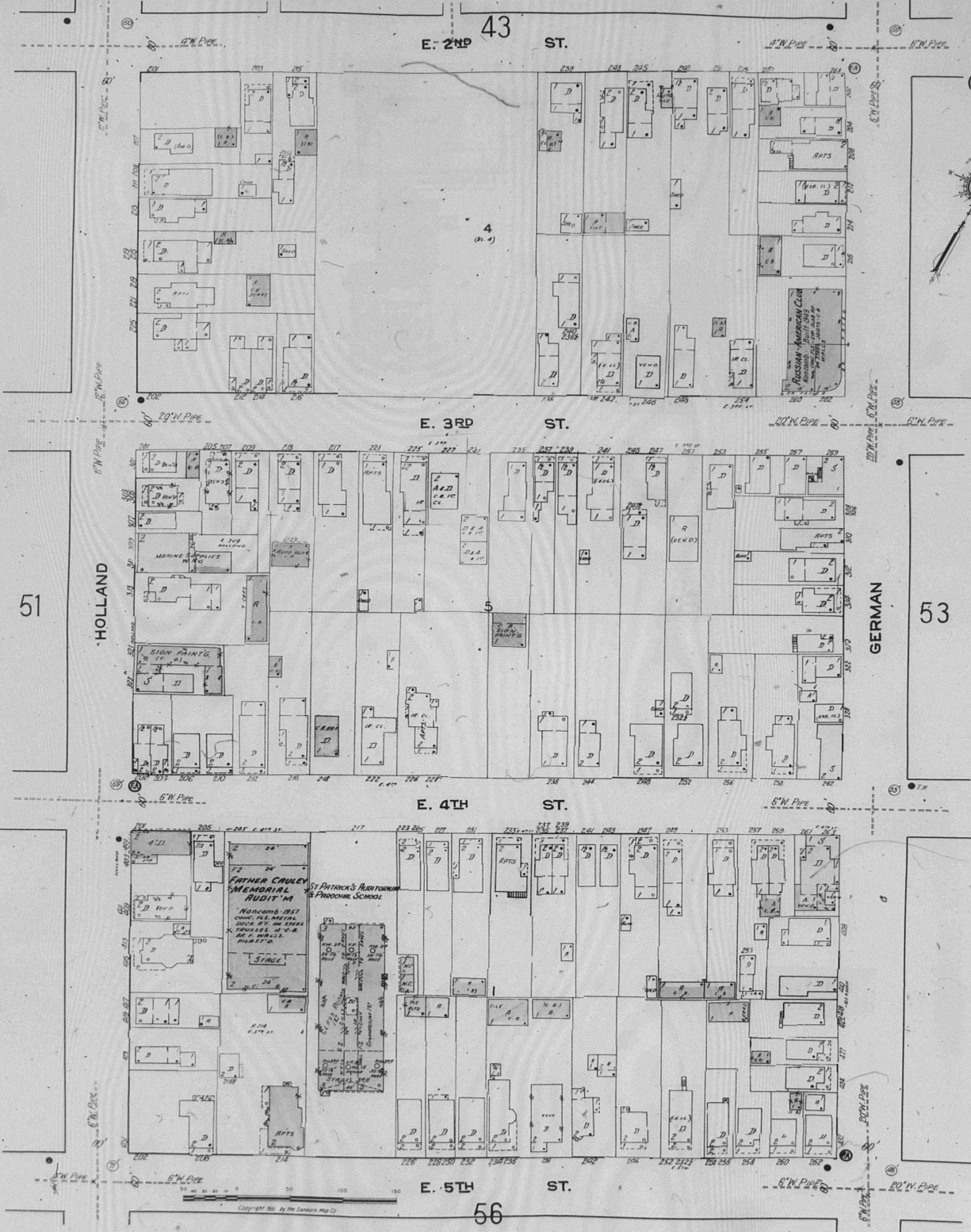


84



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E. 2ND 43 ST.

E. 3RD ST.

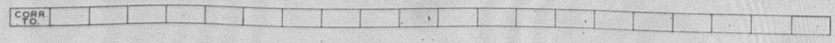
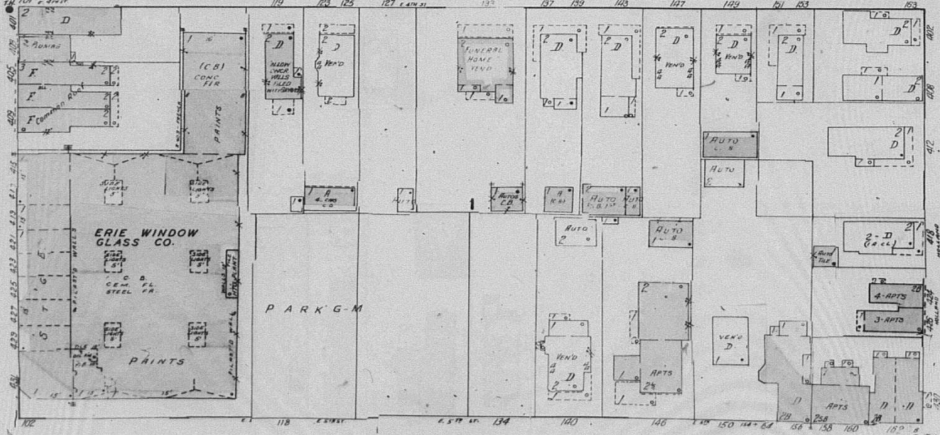
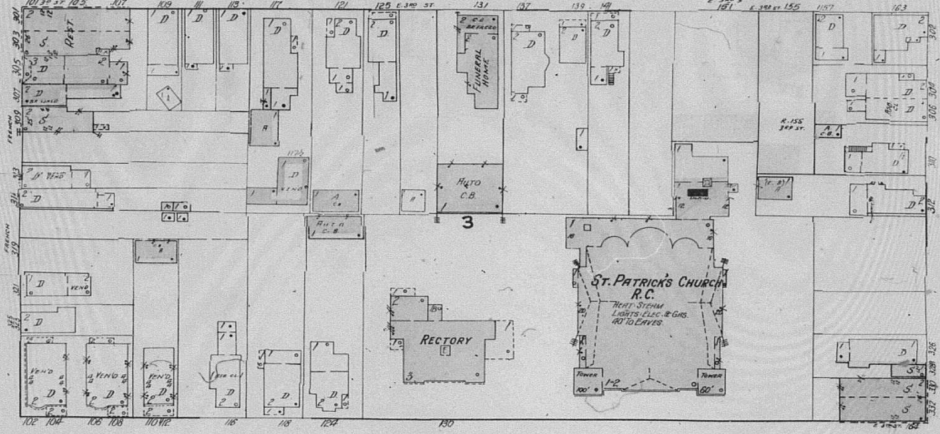
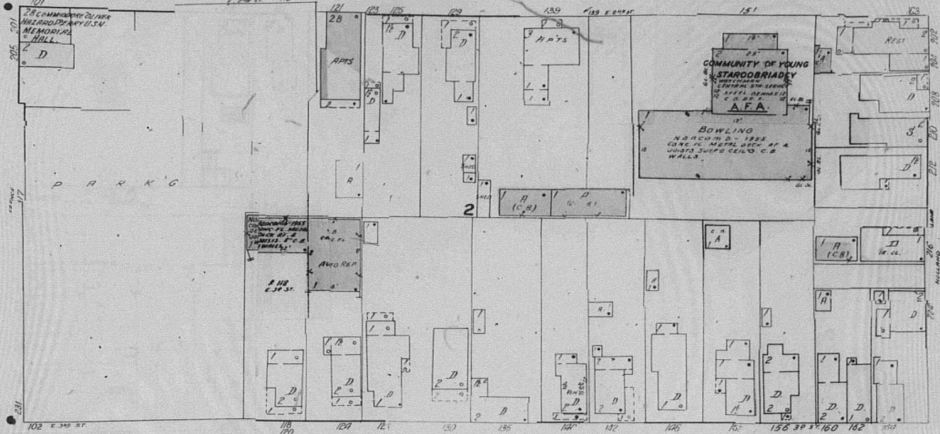
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E. 5TH ST. 55

FRENCH

HOLLAND

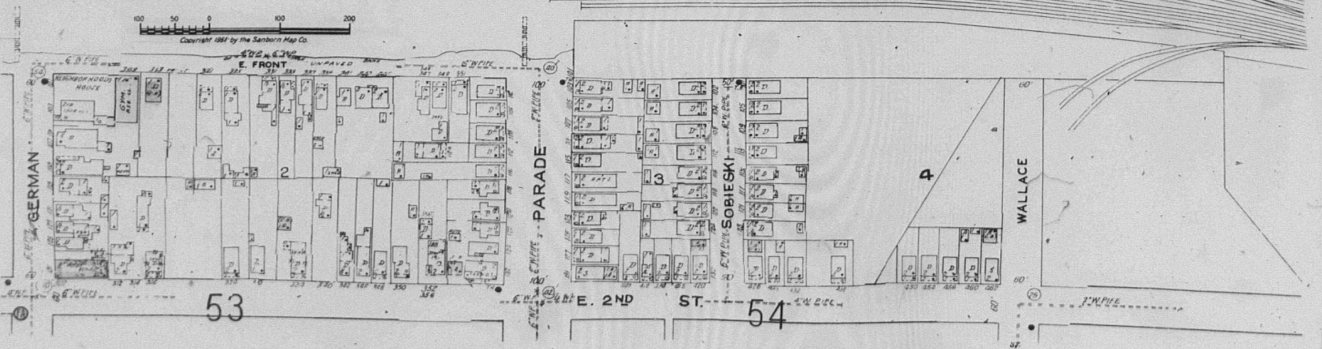
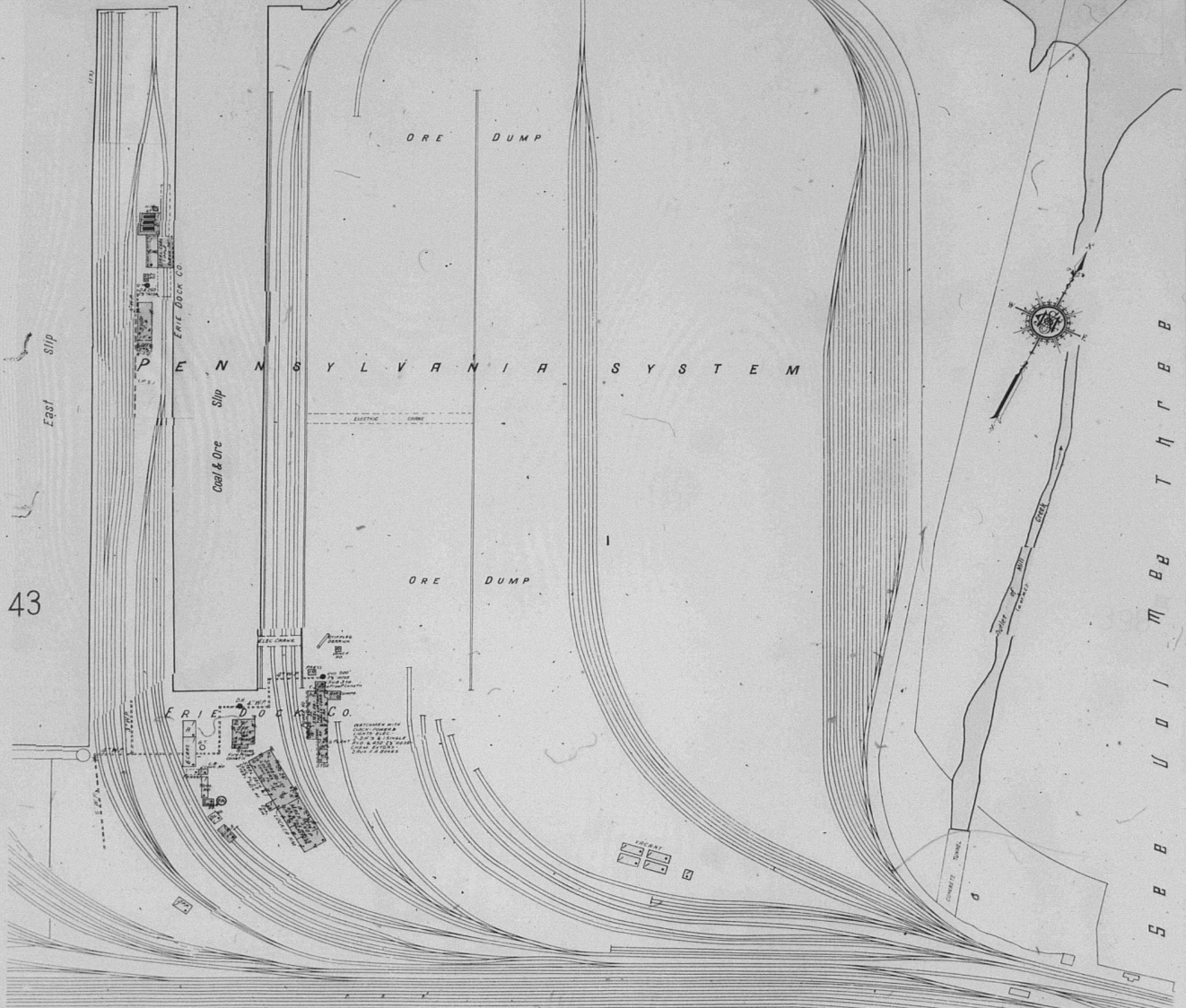
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presque Isle Bay

ERIE PA VOL. 50



43

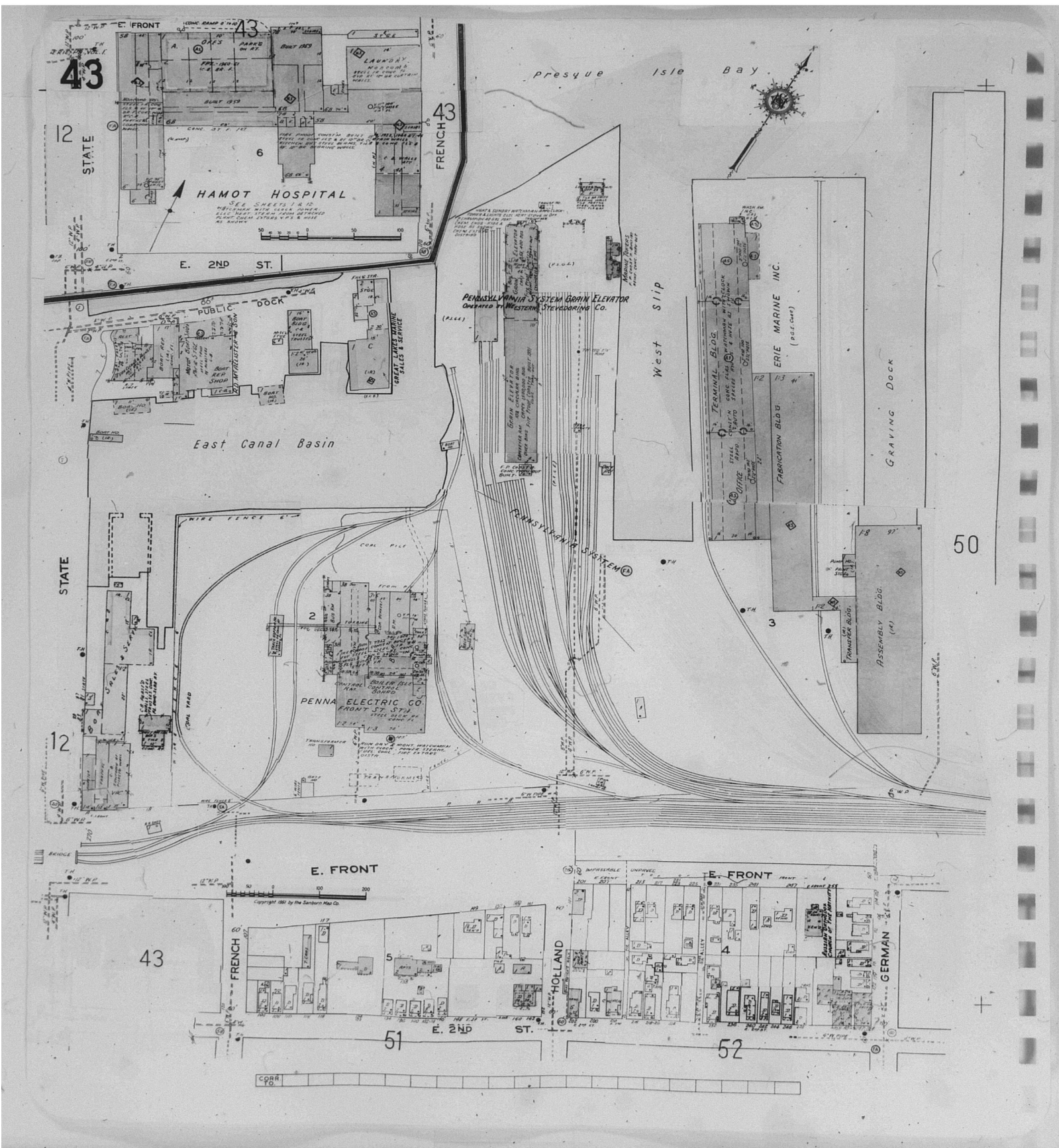
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54

47

Sheet 50
1970

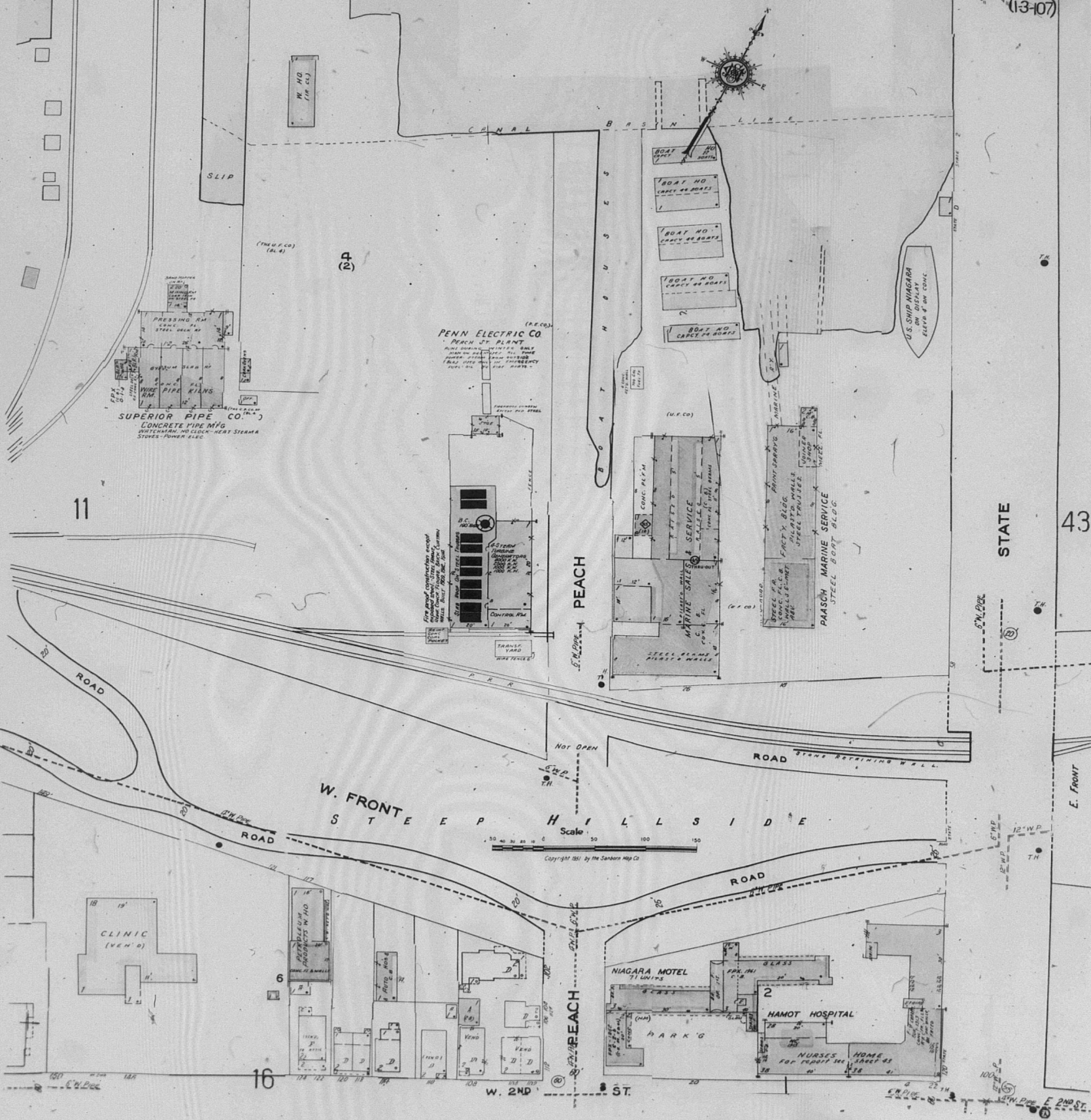
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84 West Canal Basin

ERIC. PL. VOL. I
12
(13-07)

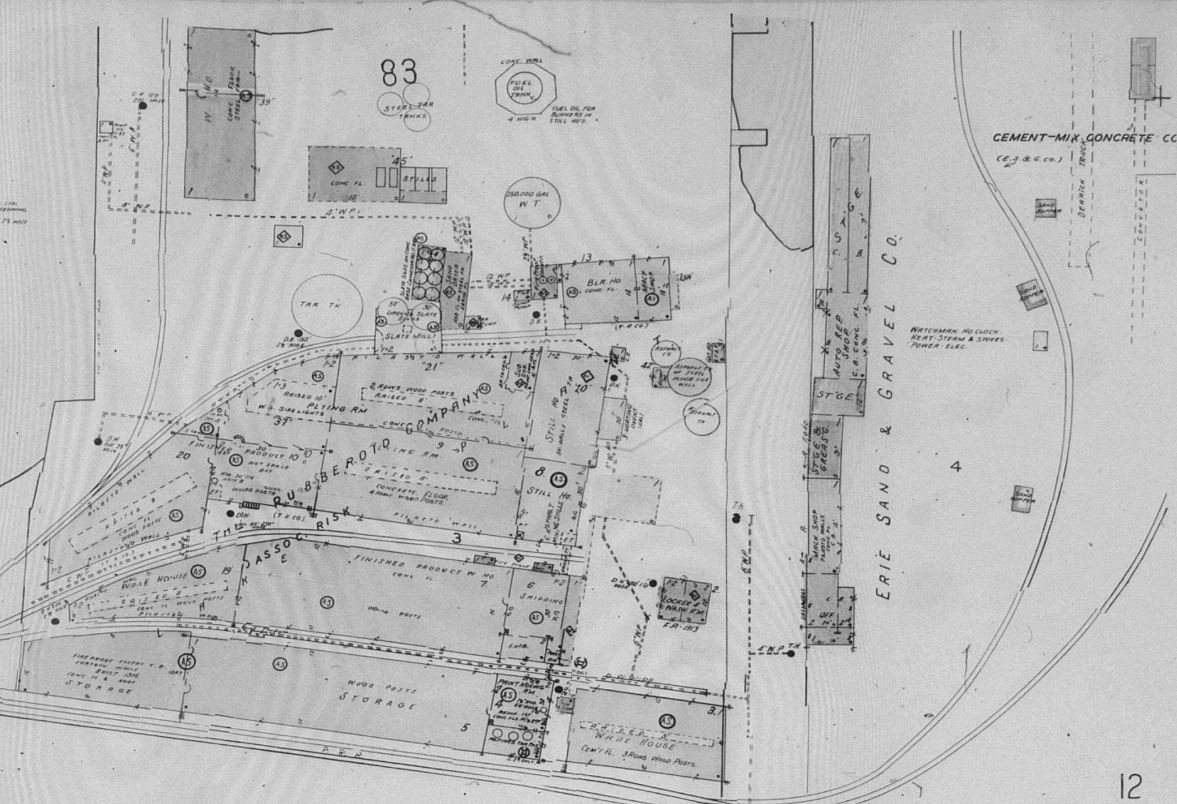


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Presque Isle Bay

THE RUBBEROID CO. - LAKE PLANT
MAP OF BLDG. & REFR. PARTS
1/4" = 1' RISE

MEASURED WITH 1/4" = 1' SCALE & LENGTHS 1/4" = 1' TO 1/4" = 1' SCALE
REMARKS: UNDERGROUND DRAIN LINES SHOWN ONLY ON 1/4" = 1' SCALE
NOTES: PLANT 1/4" = 1' SCALE, BY THE MAP & PLAN TO SHOW
UNDERGROUND DRAIN LINES ONLY ON 1/4" = 1' SCALE, 1/4" = 1' SCALE



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12

STEEP HILLSIDE

W. FRONT

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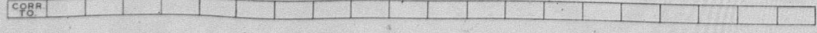
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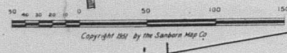
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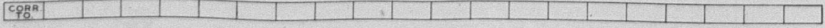
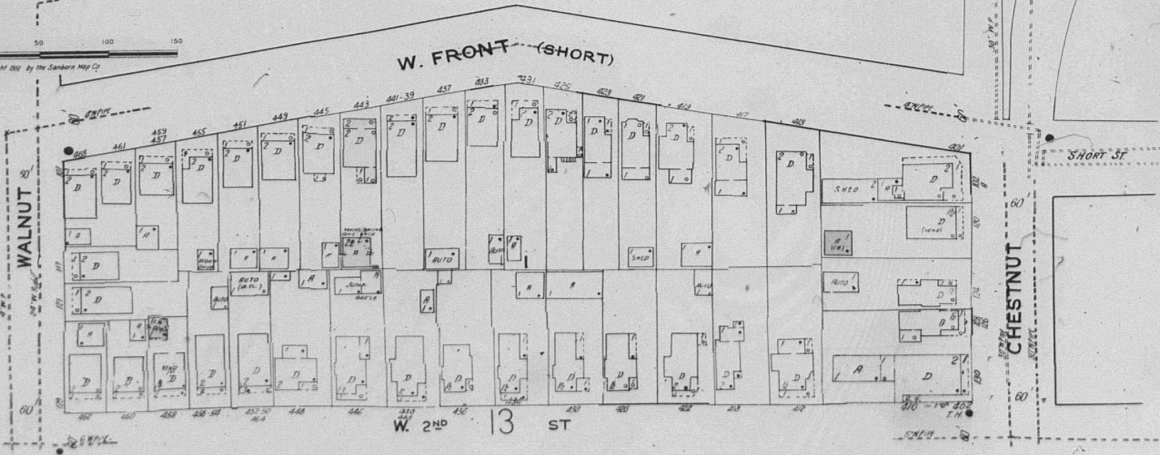
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Presque Isle Bay

10



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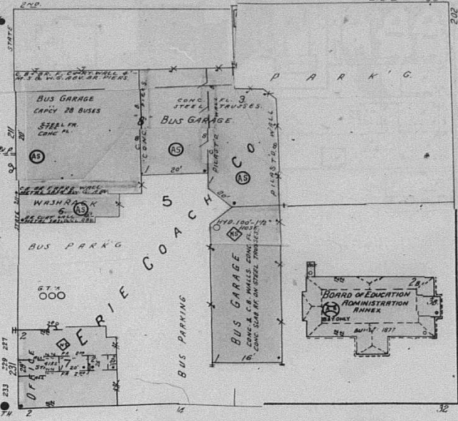
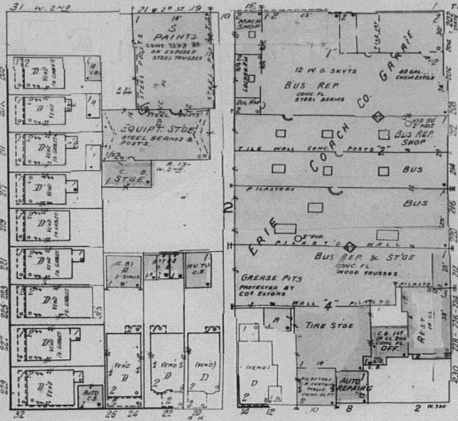
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(3778)
ERIE, PA. VOL. I

(3-4-13-14)

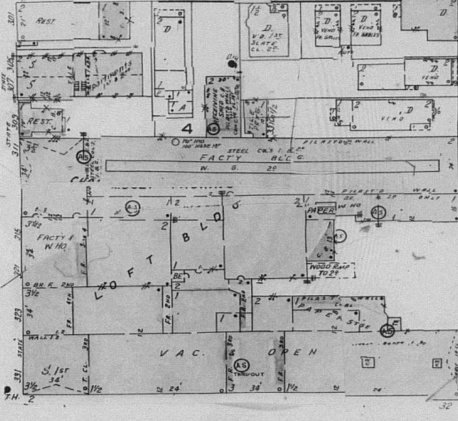
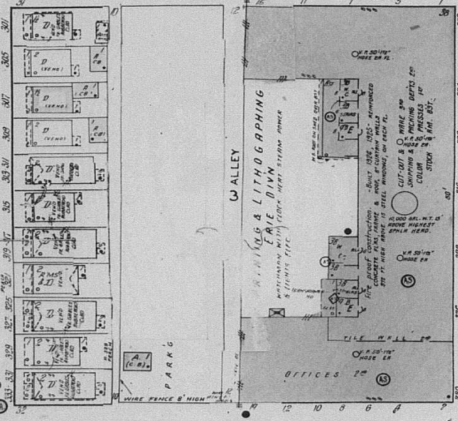
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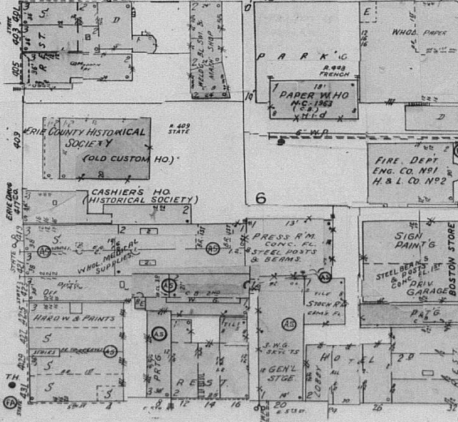
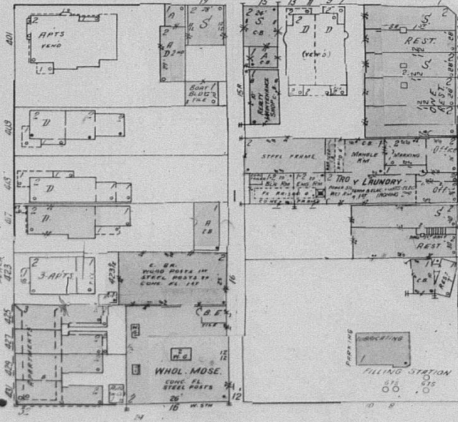
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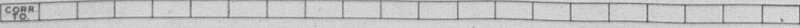
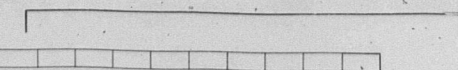
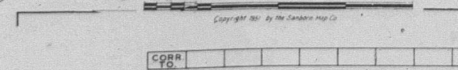
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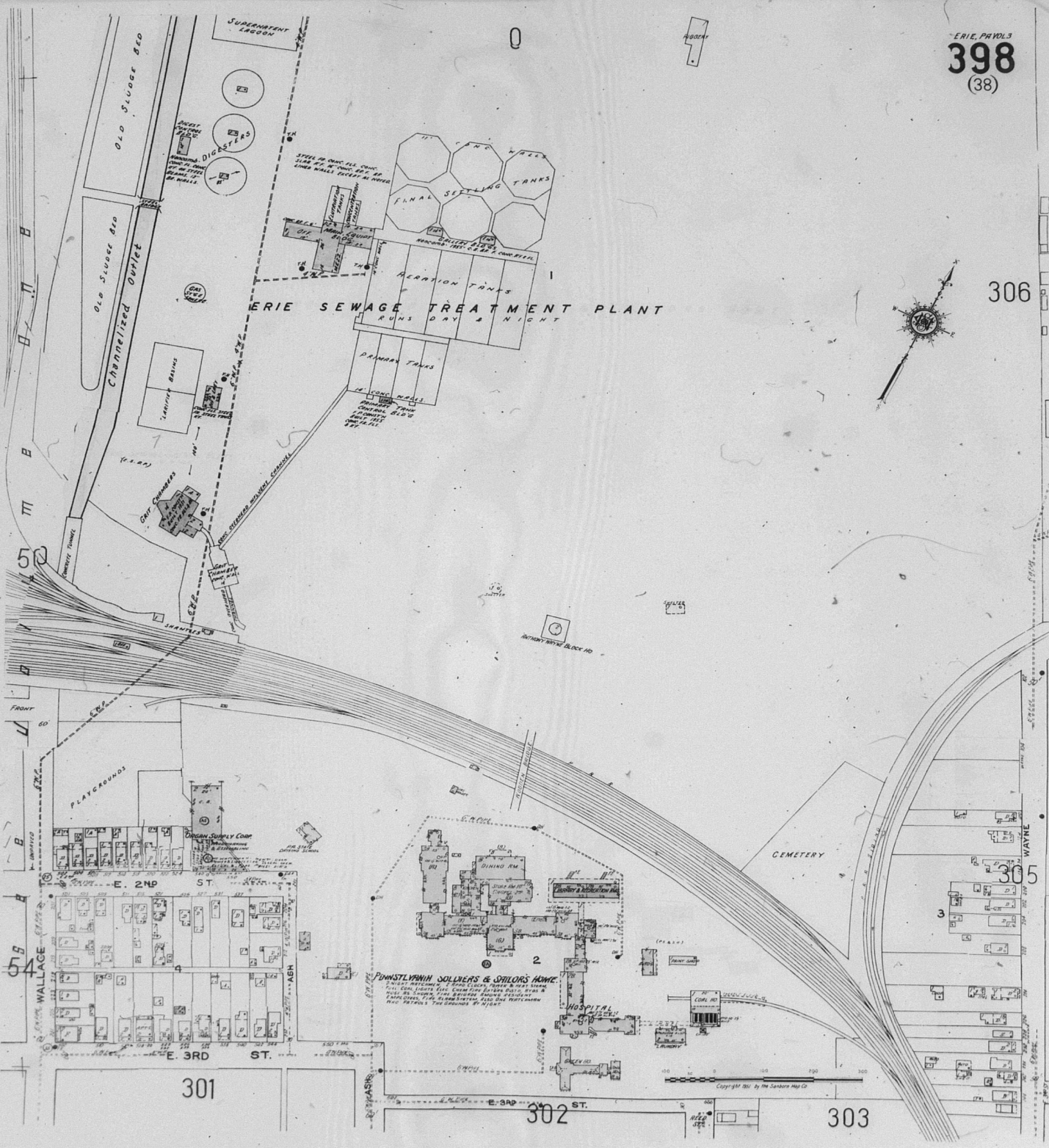


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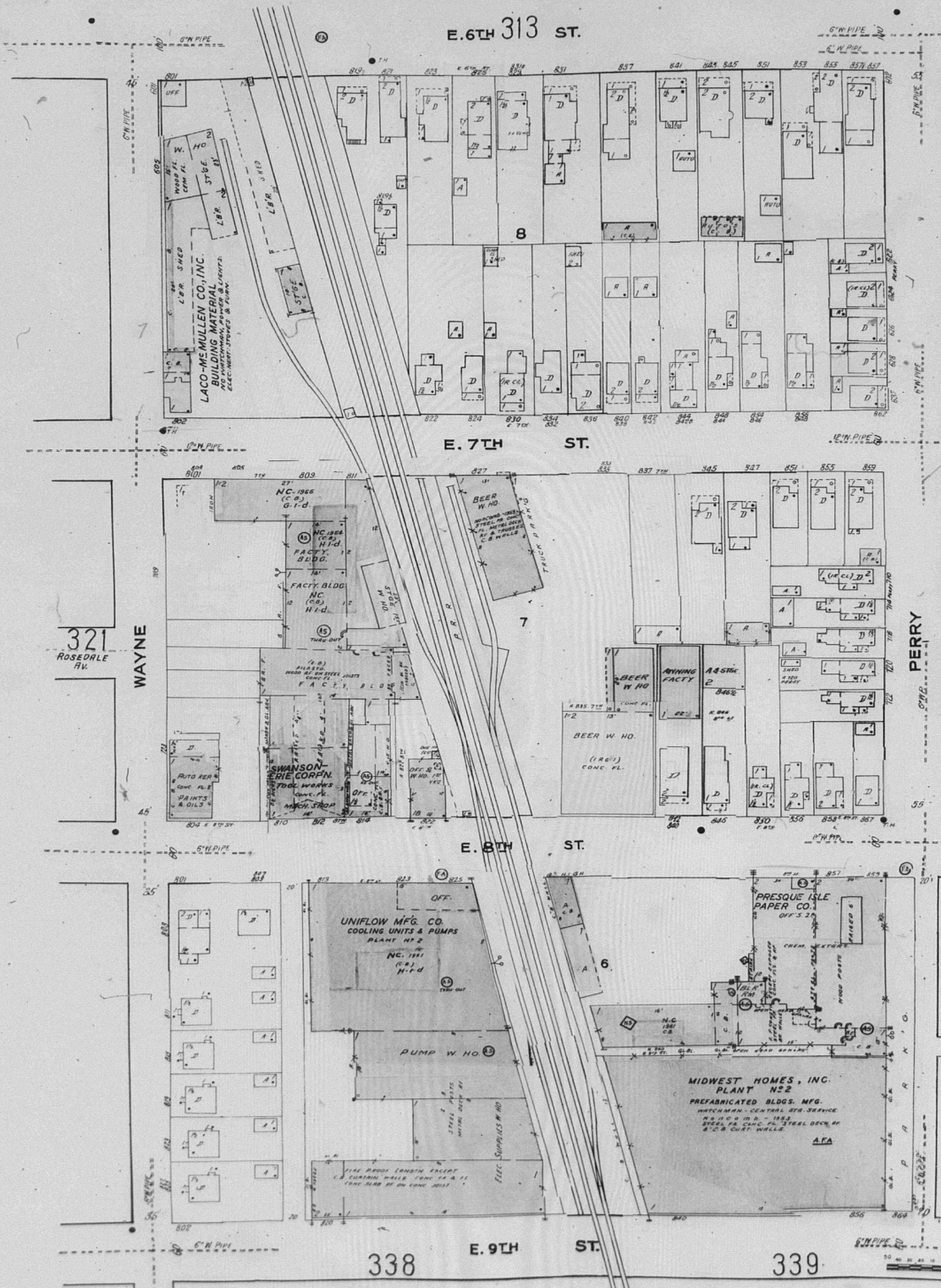
E. 5TH ST.



ERIE SEWAGE TREATMENT PLANT
RUNS DAY & NIGHT



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321
ROSEDALE
BLK

WAYNE

323

PERRY

E. 6TH 313 ST.

E. 7TH ST.

E. 8TH ST.

E. 9TH ST.

338

339

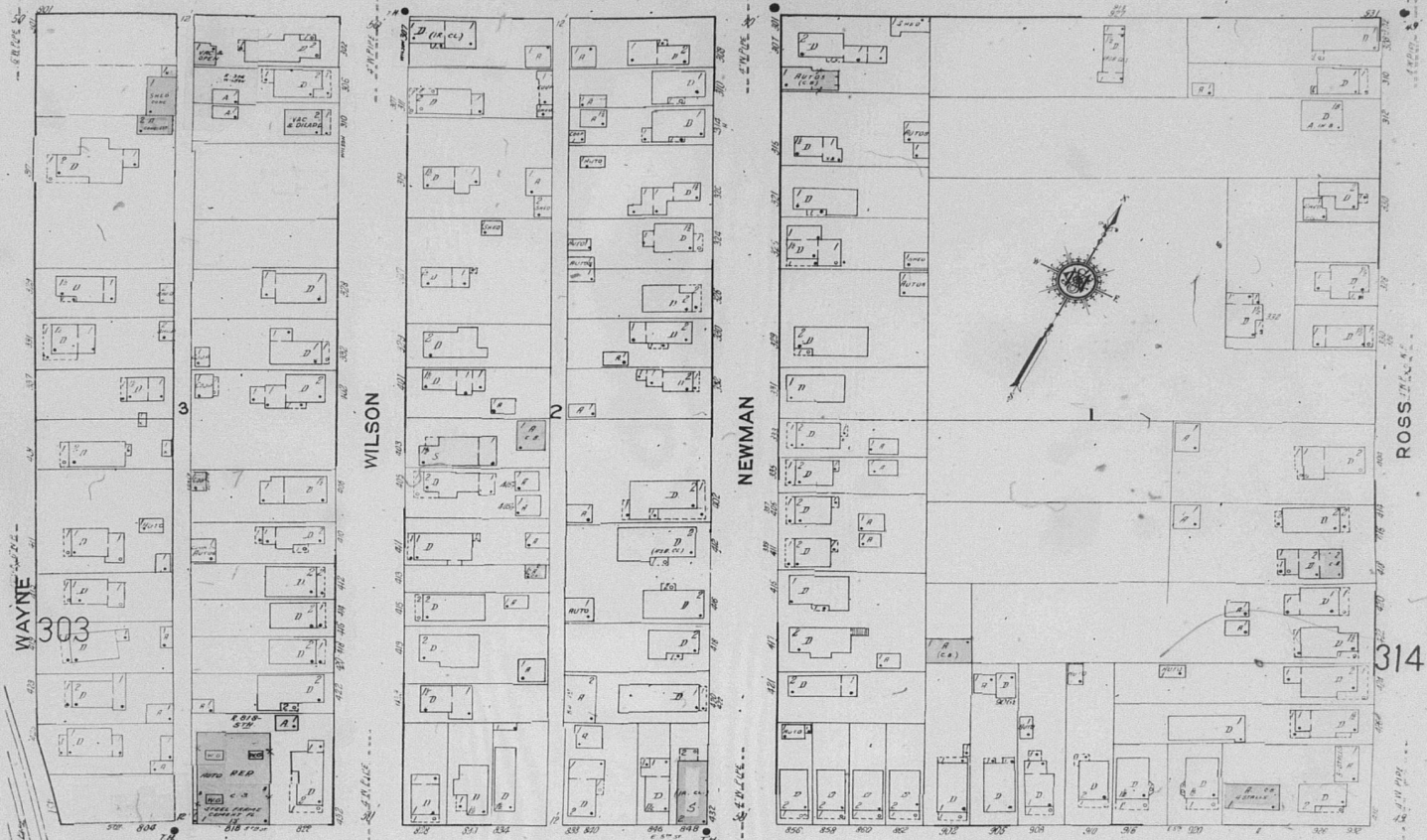
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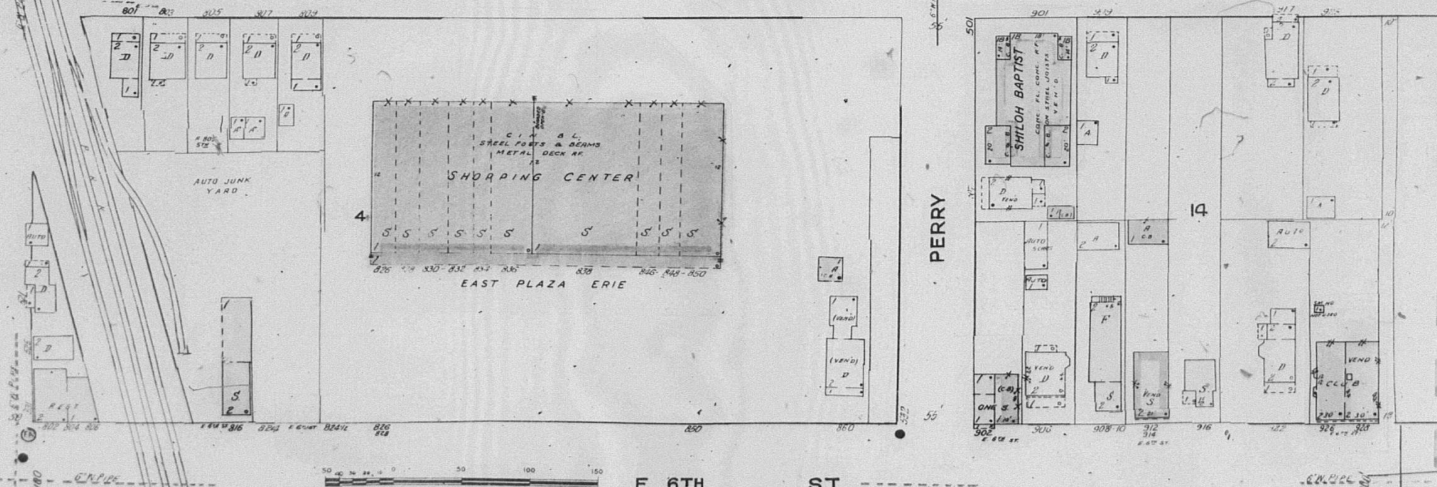
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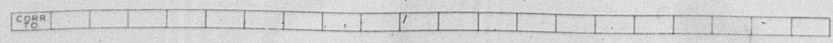
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E. 6TH ST.

322

323



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Sheet 313
1966

ERIE PA VOL. 3
305
(311)

306

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E. 1ST ST.

312

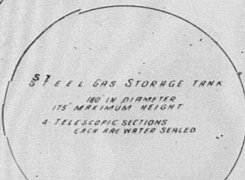
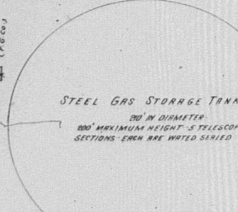
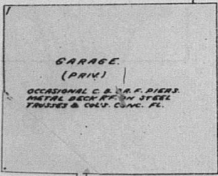
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398

WAYNE

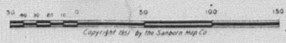
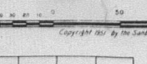
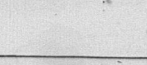
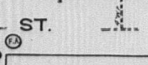
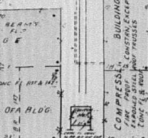
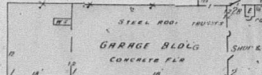


PENNSYLVANIA GAS CO.

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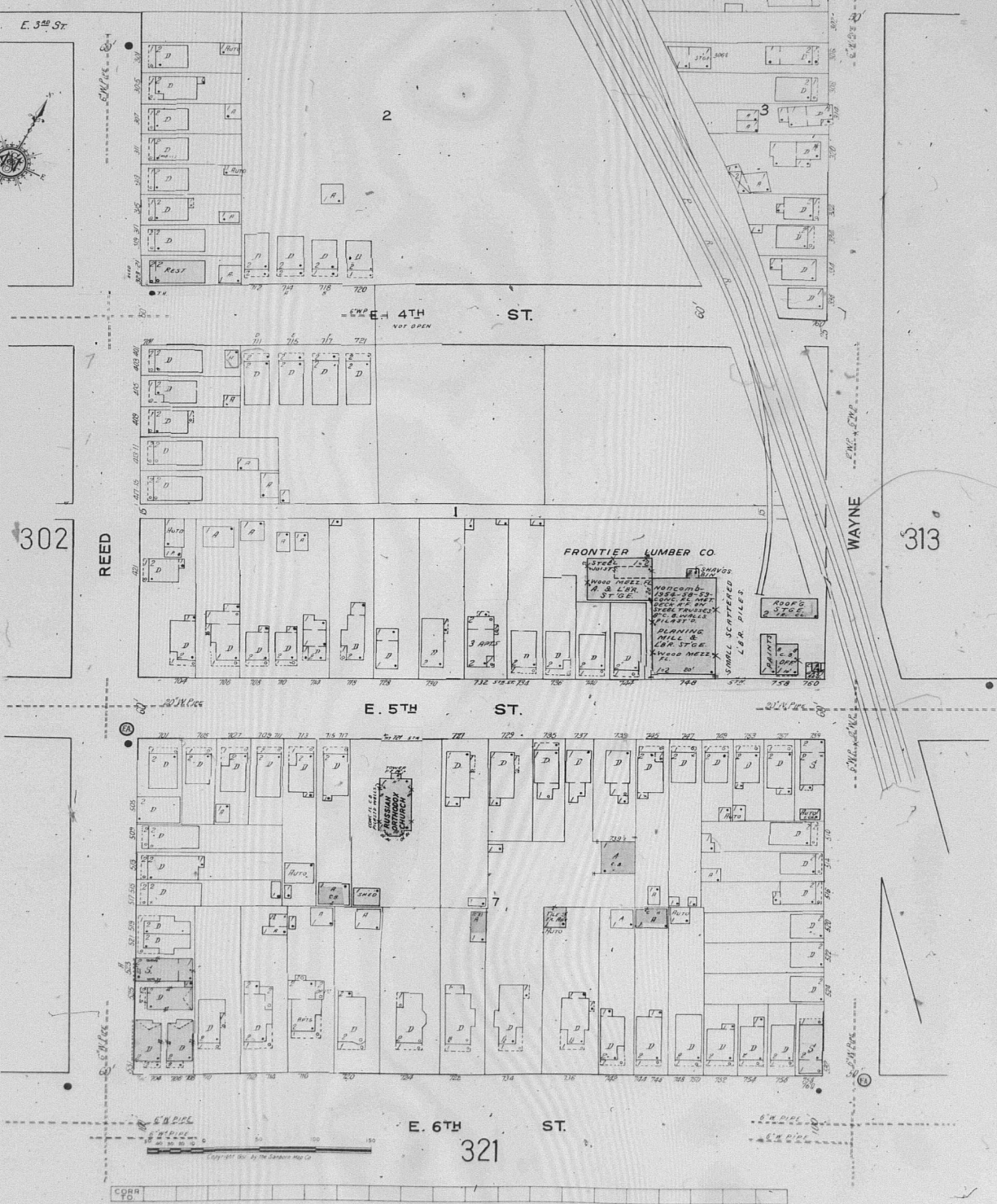


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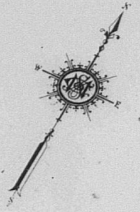
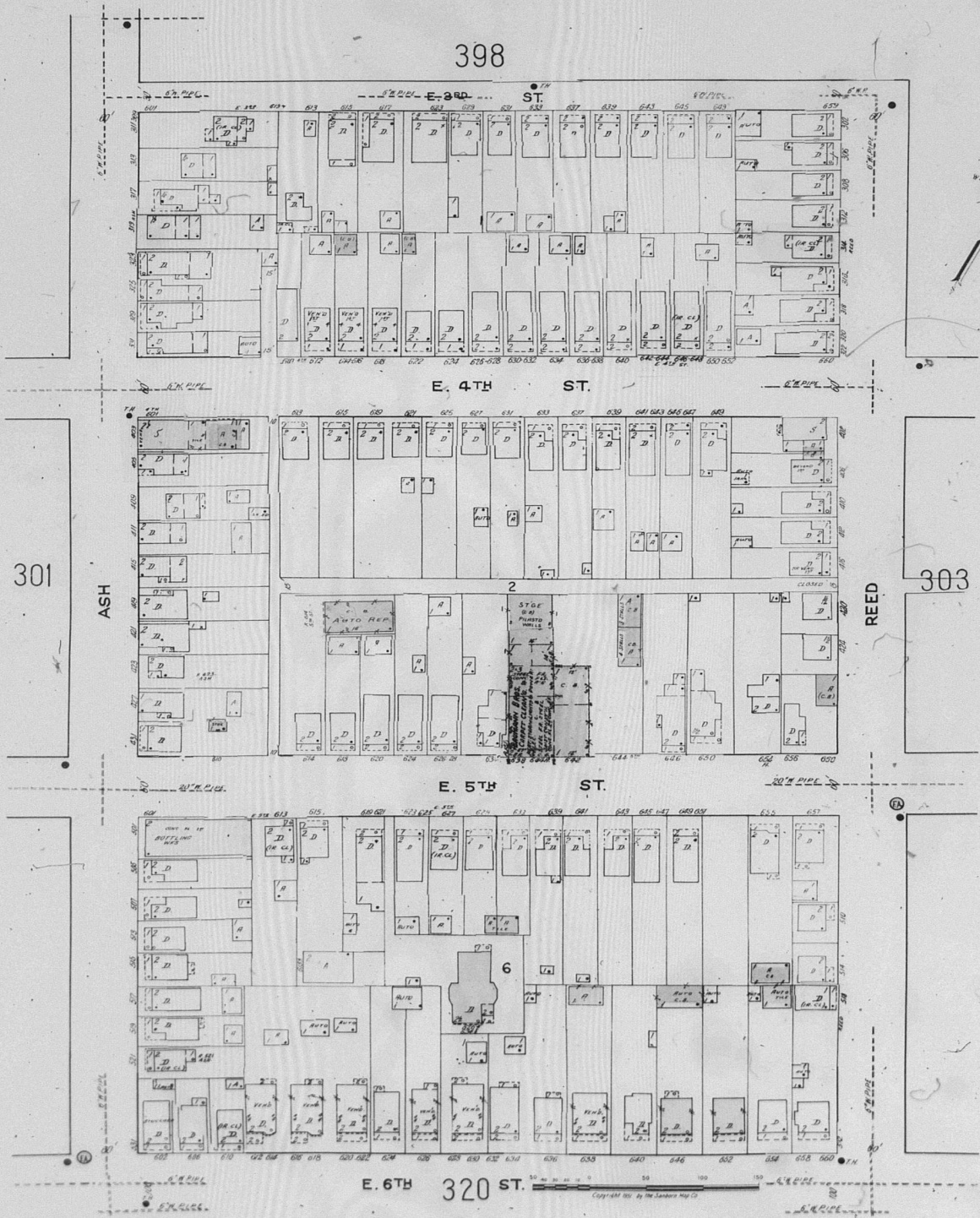
L.R.I.E. Pt. Vol. 3
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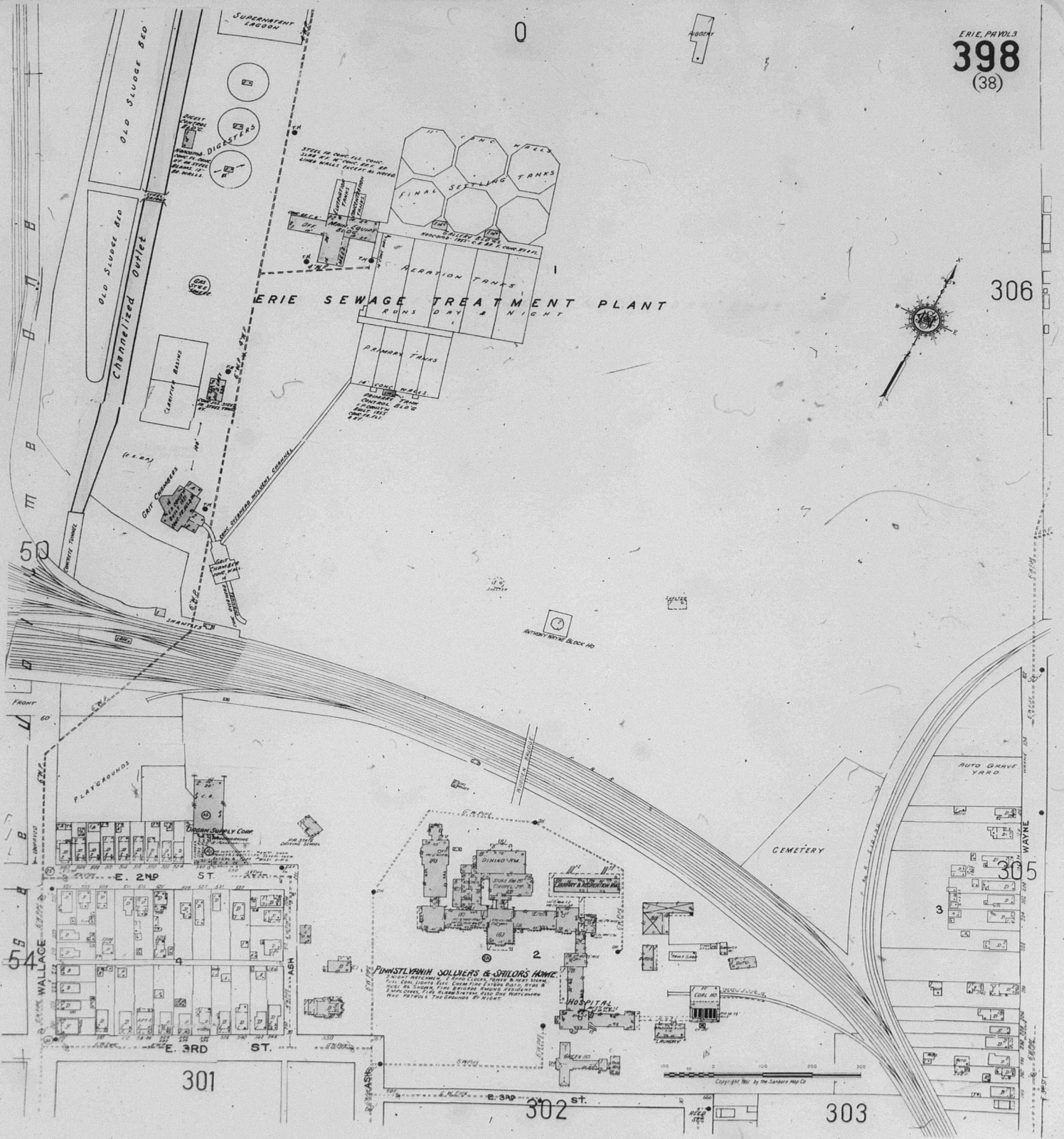


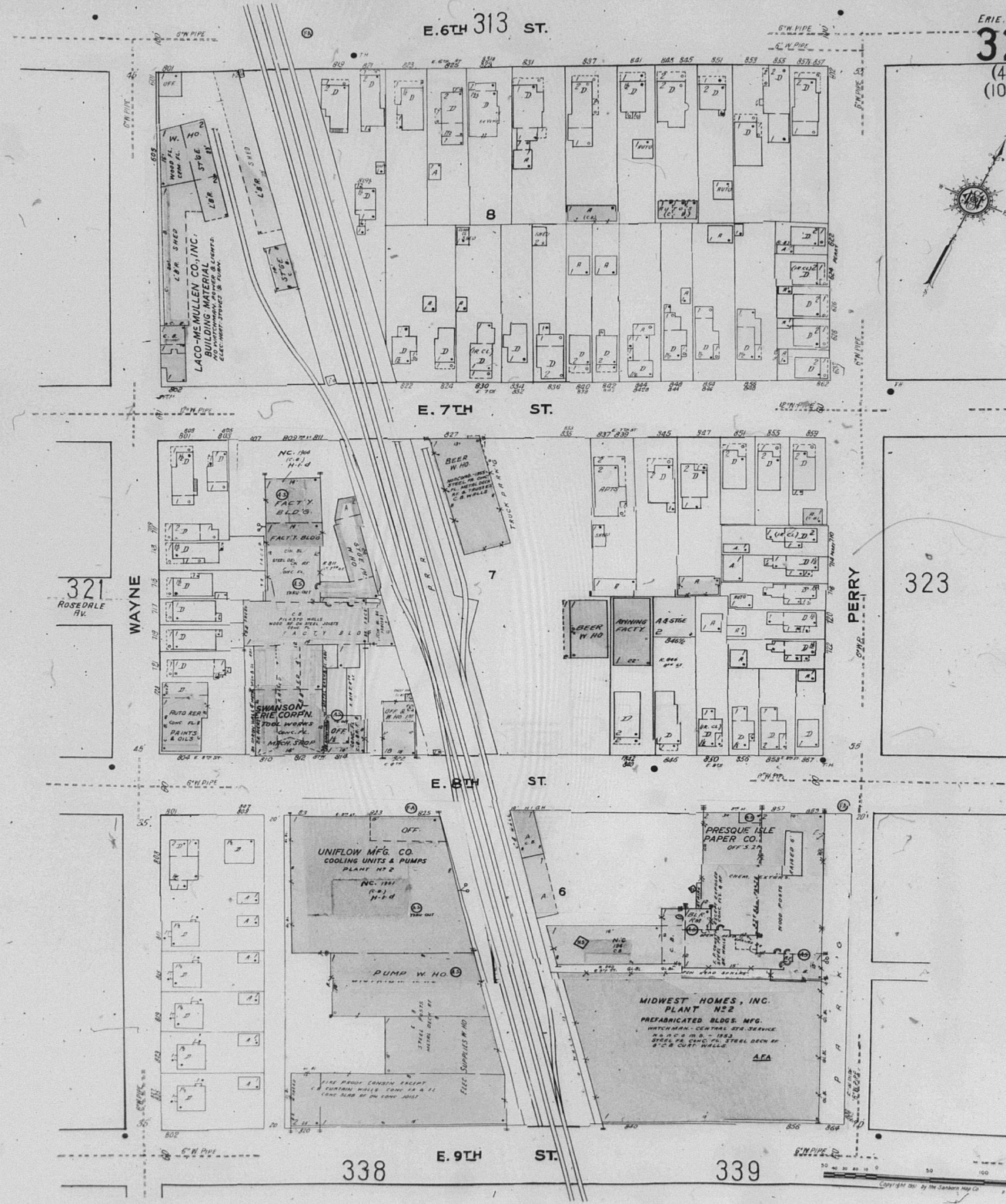
Sheet 303
1966

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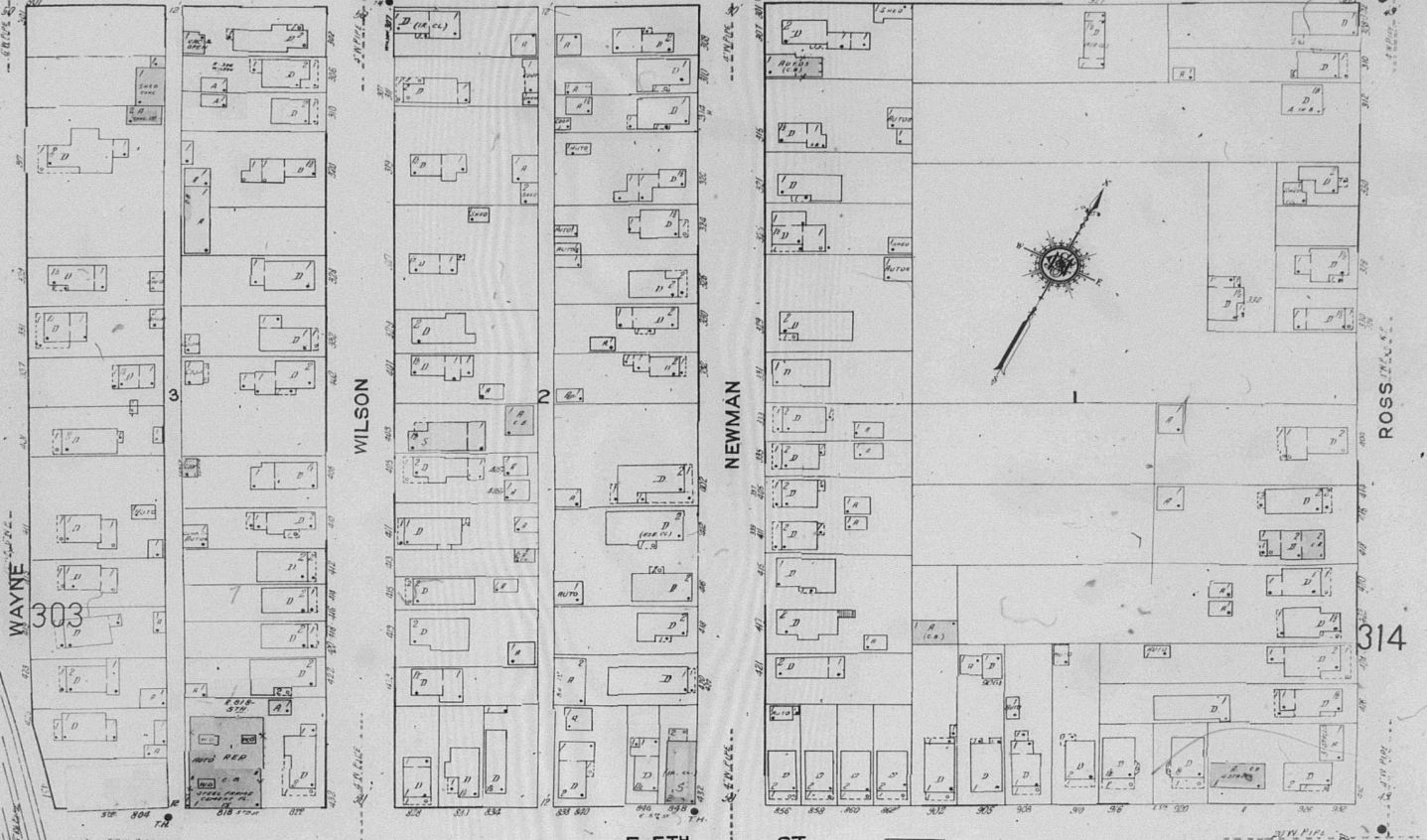


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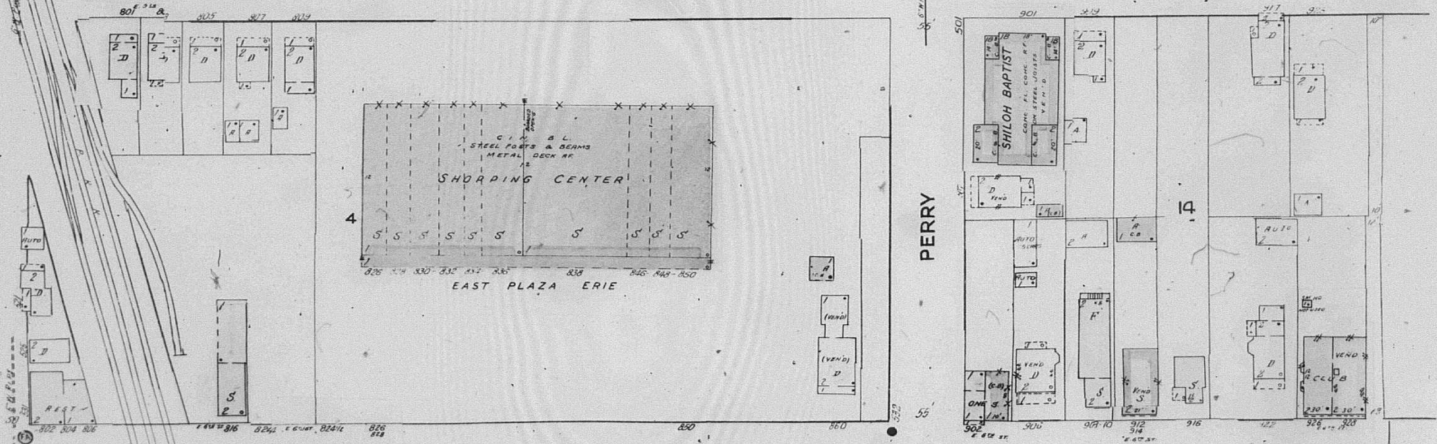
ERIE, PA. VOL. 3
313
(101-105)

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E. 3RD ST.



E. 5TH ST.



E. 6TH ST.

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ERIE PA VOL-3
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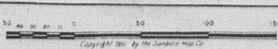
312

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E. 1ST ST.

E. 3RD ST.

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175' MAXIMUM HEIGHT - TELESCOPIC
SECTIONS - EACH ARE WATER SEALED

STEEL GAS STORAGE TANK
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175' MAXIMUM HEIGHT - TELESCOPIC
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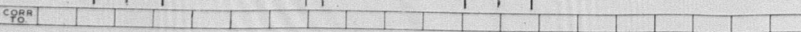
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R.I. STEEL PURIFIER

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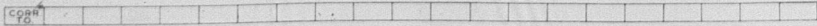
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E. 5TH ST.

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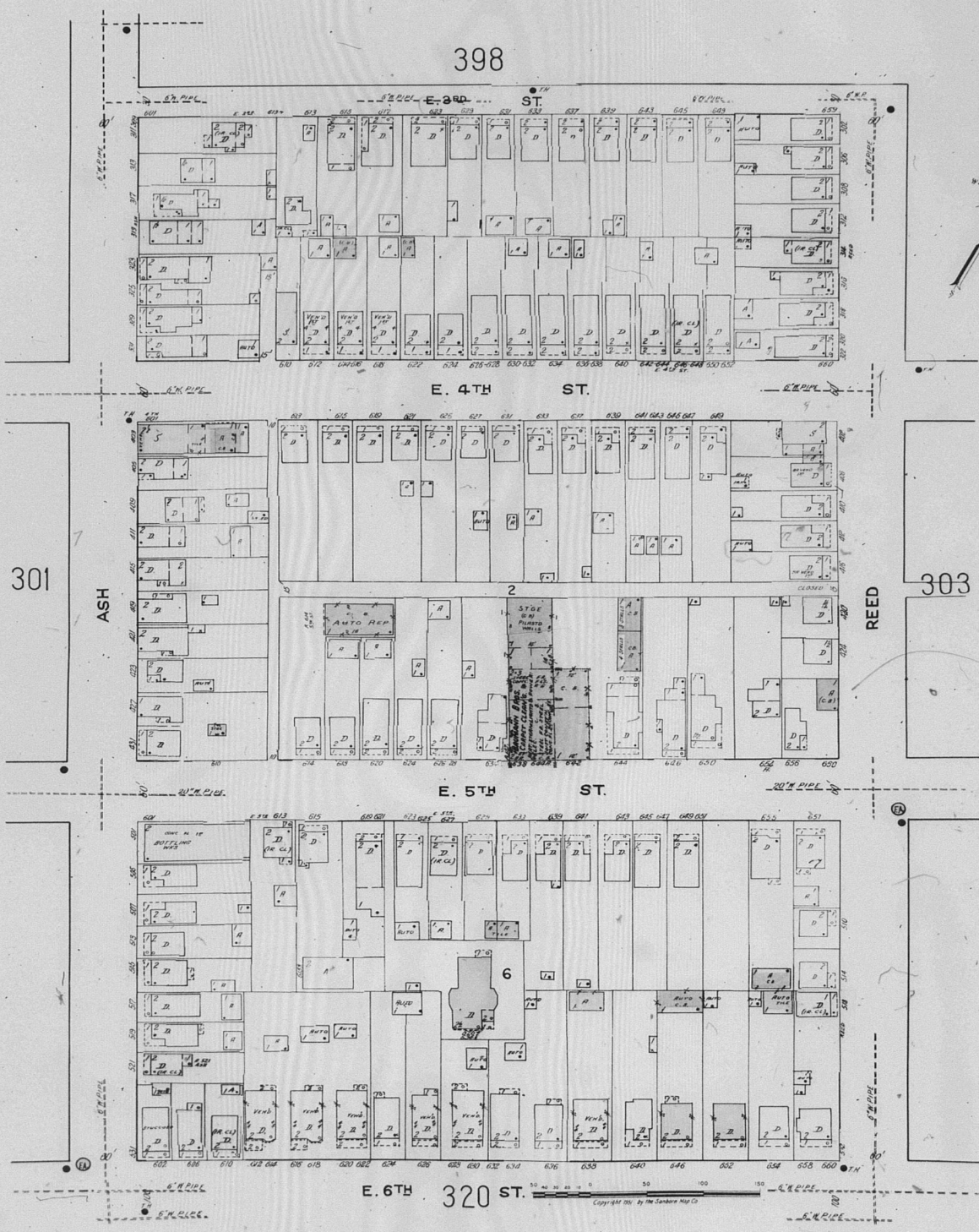
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313



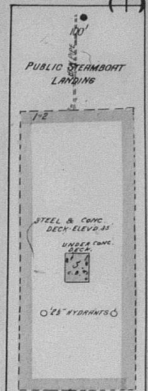
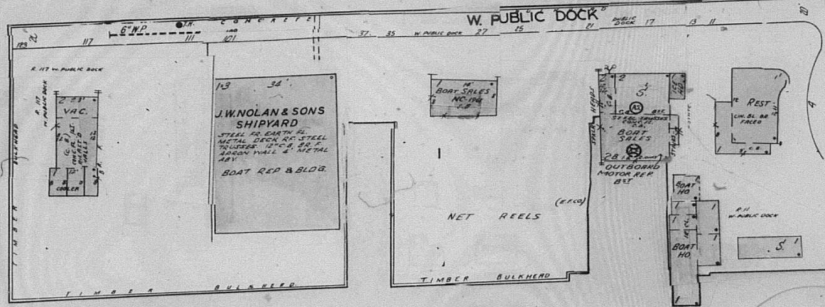
Sheet 302
1965

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Presque Isle Bay

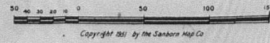
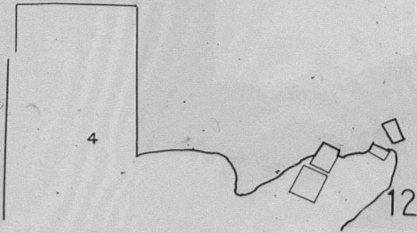


PUBLIC STEAMBOAT LANDING

43

STATE

West Canal Basin



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P r e s q u e I s l e B a y

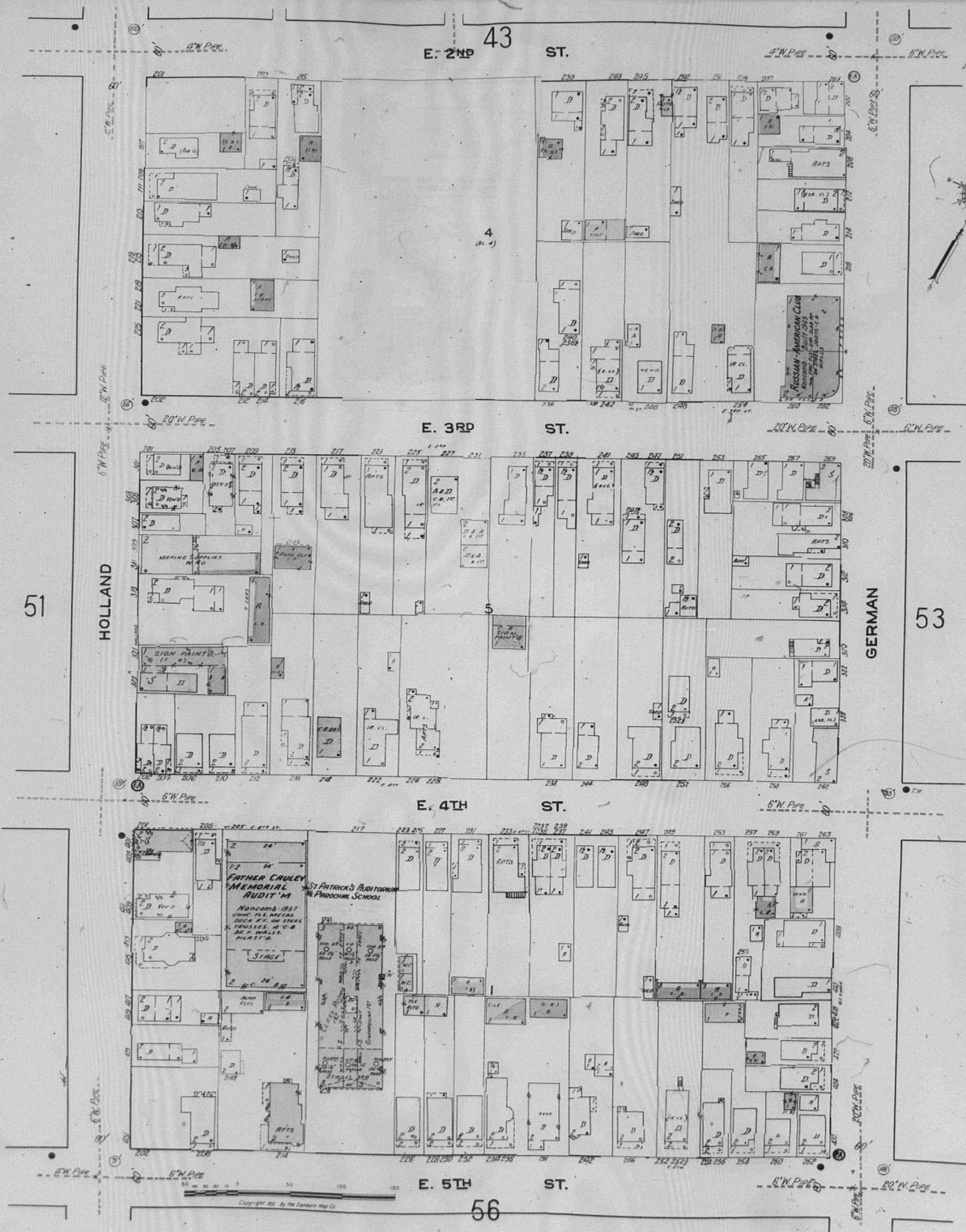


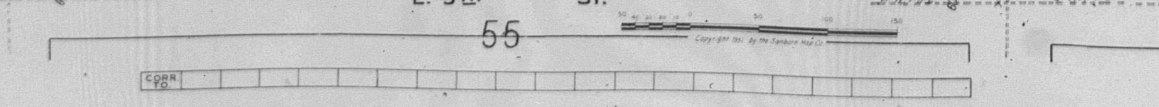
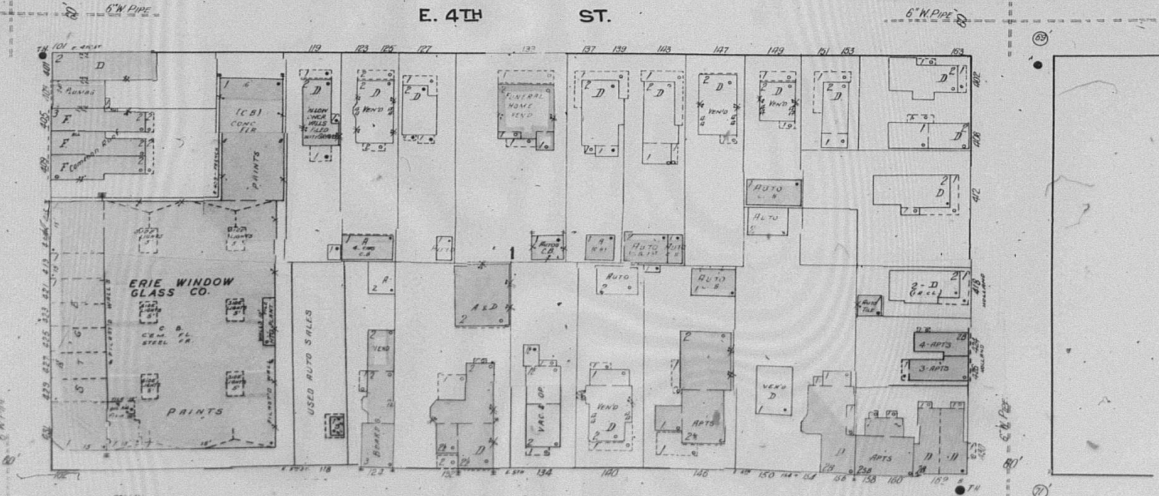
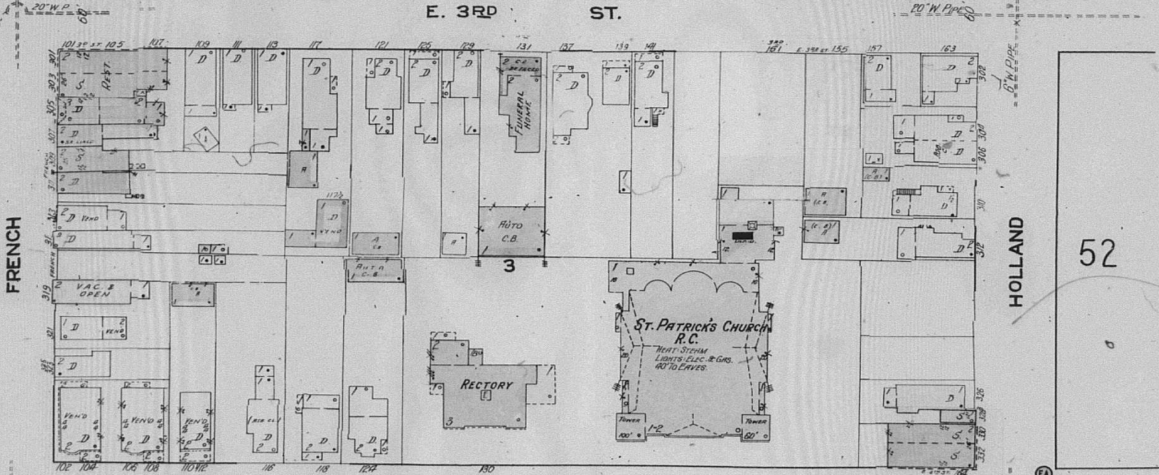
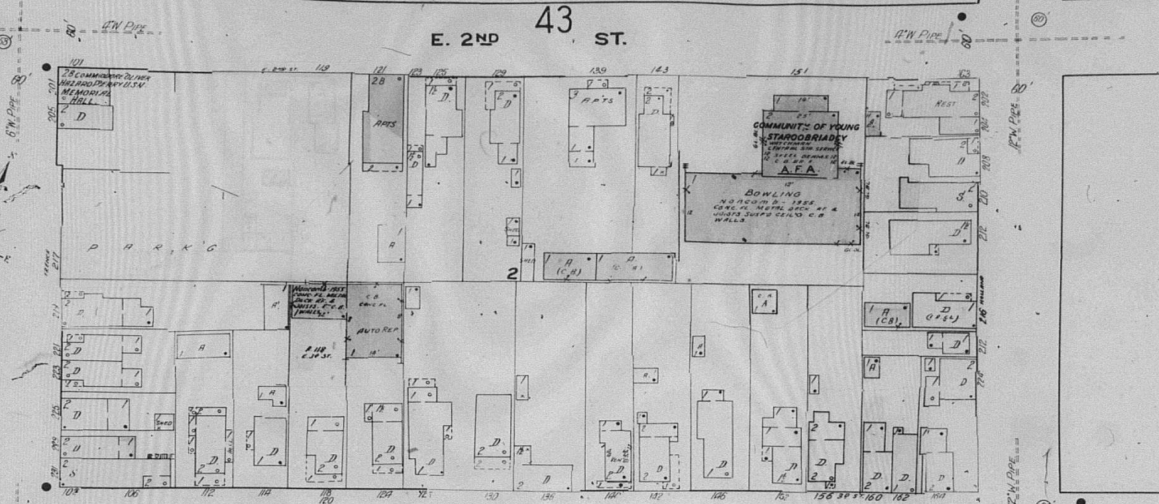
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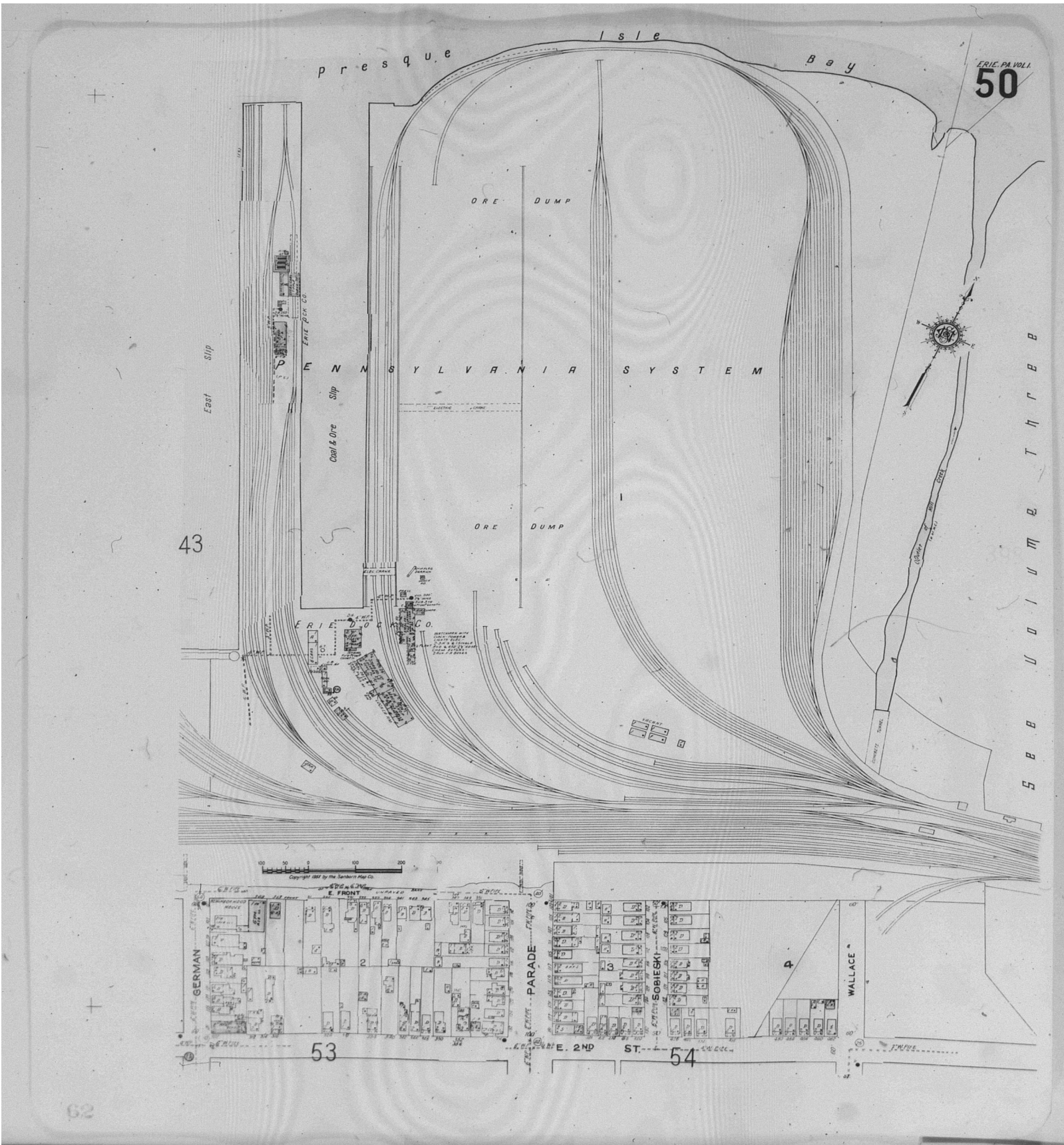
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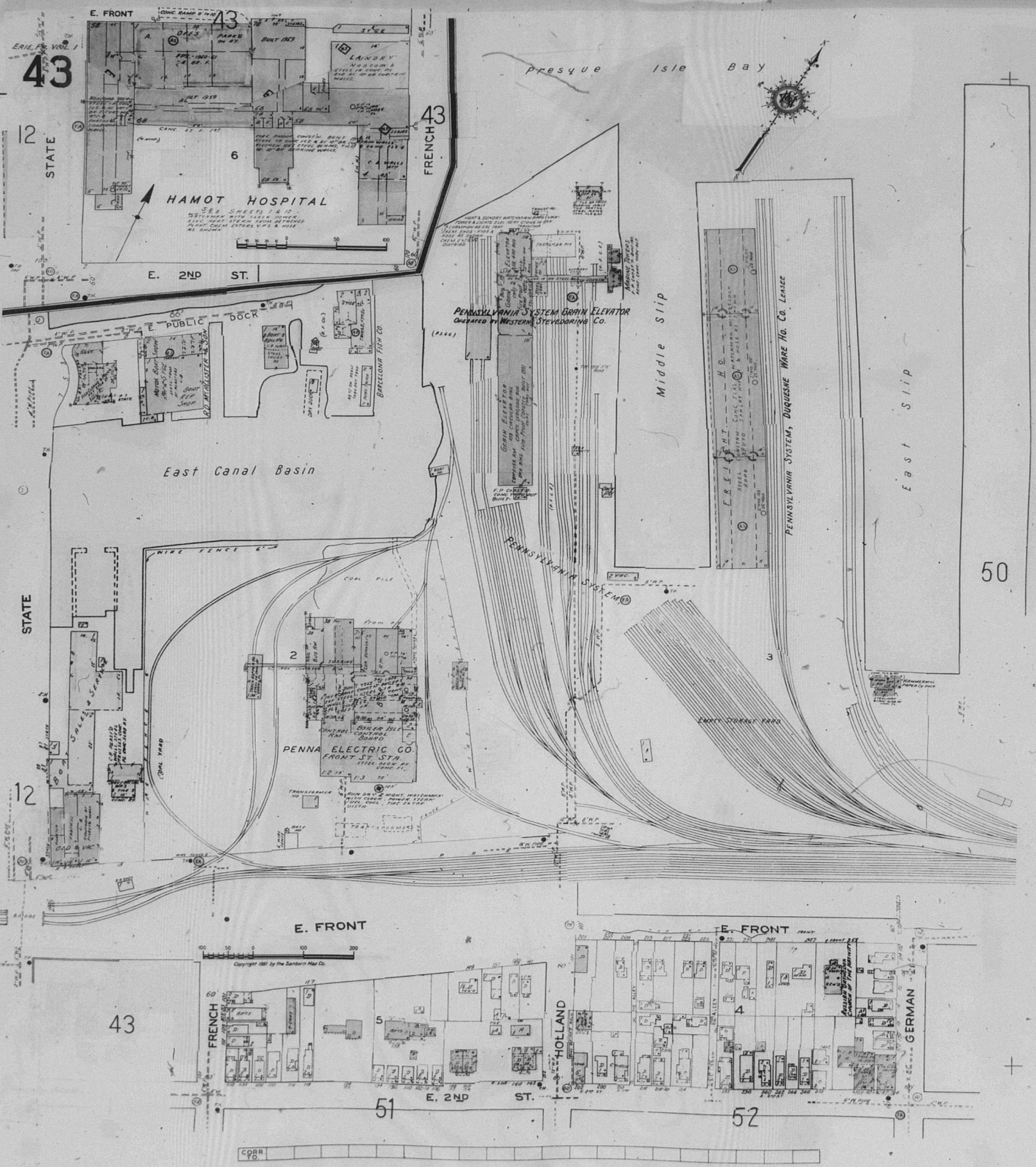


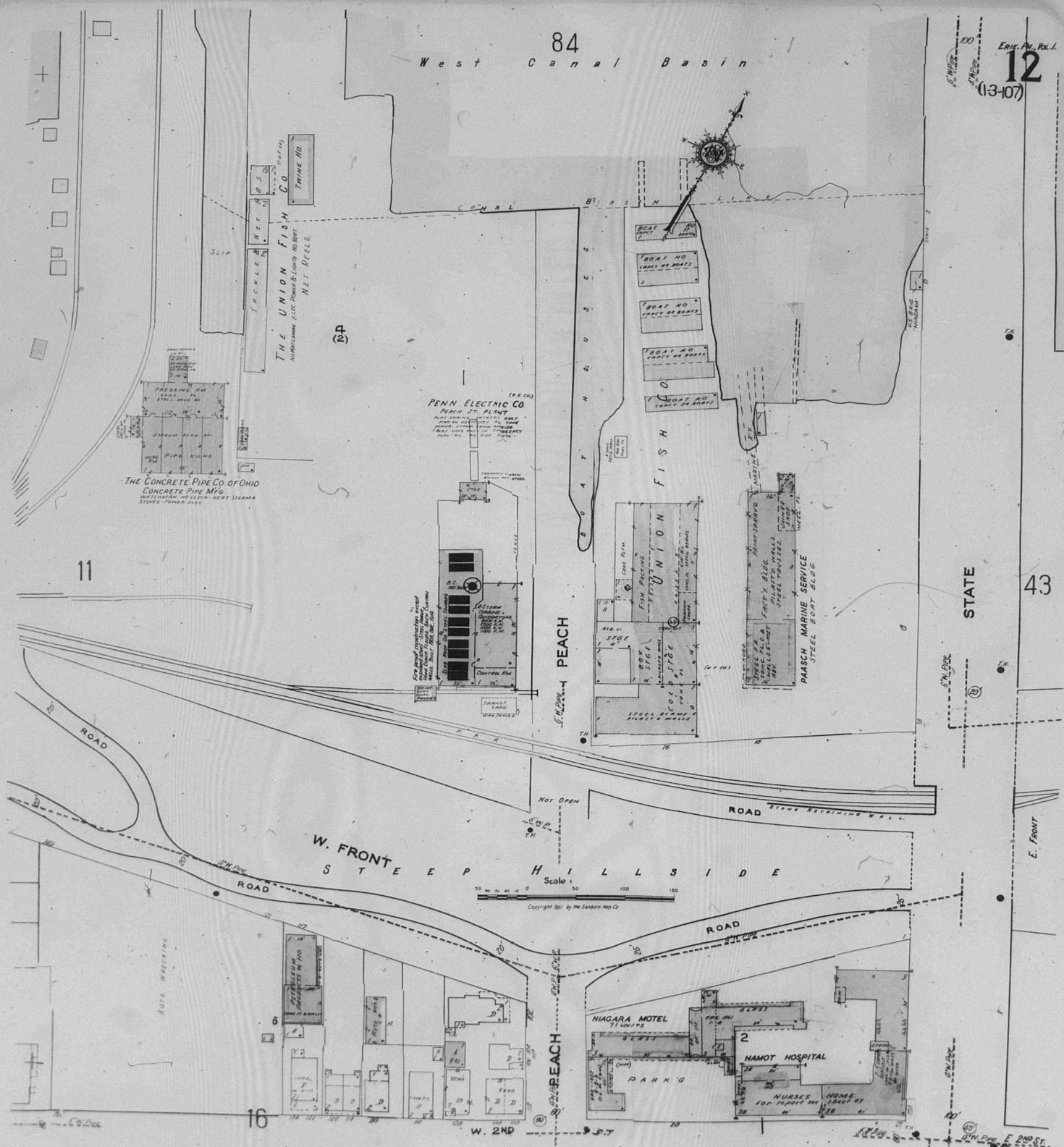


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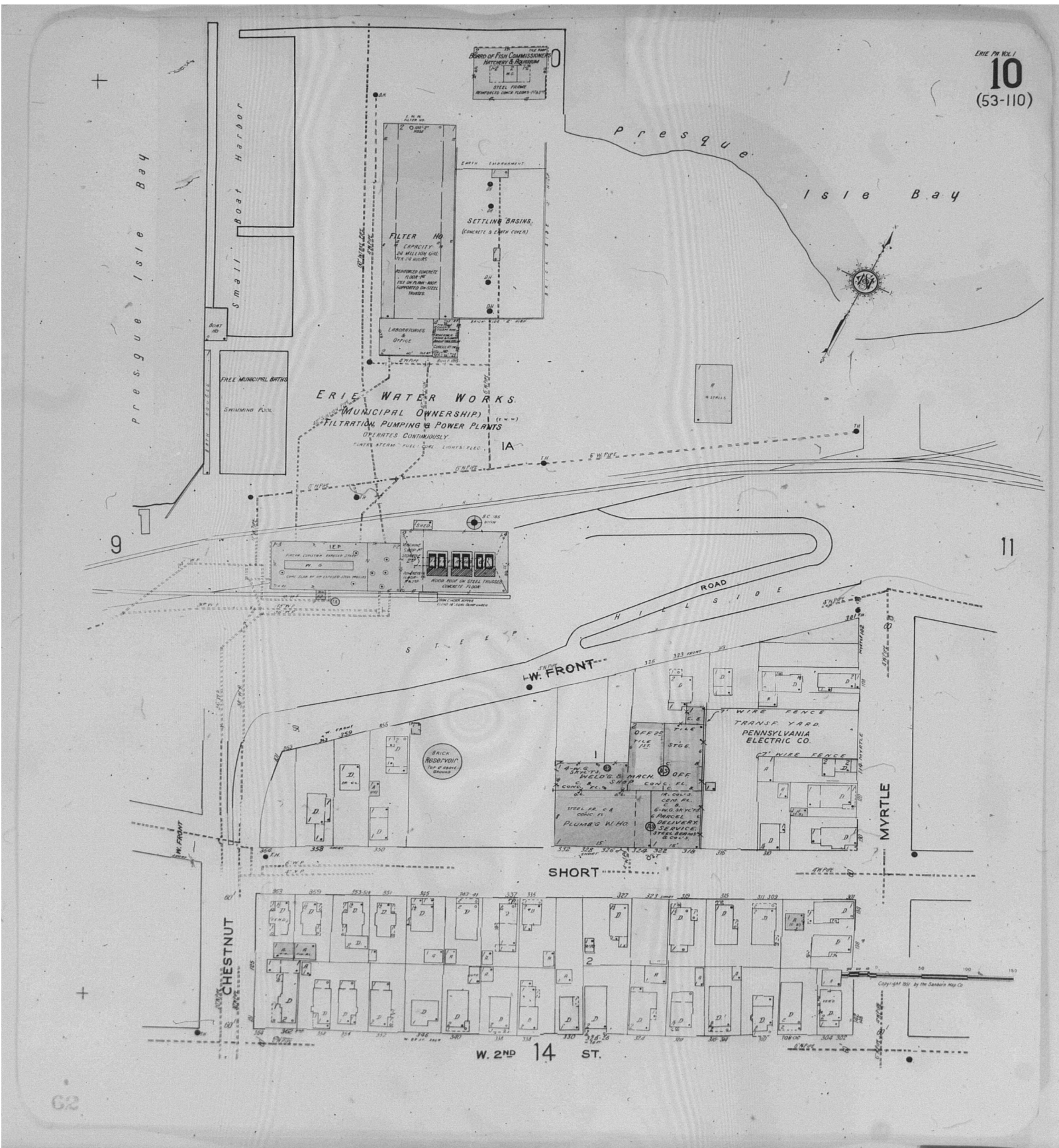


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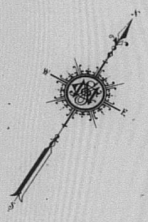




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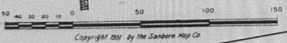
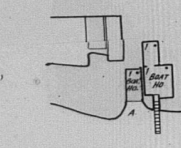
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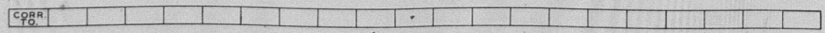
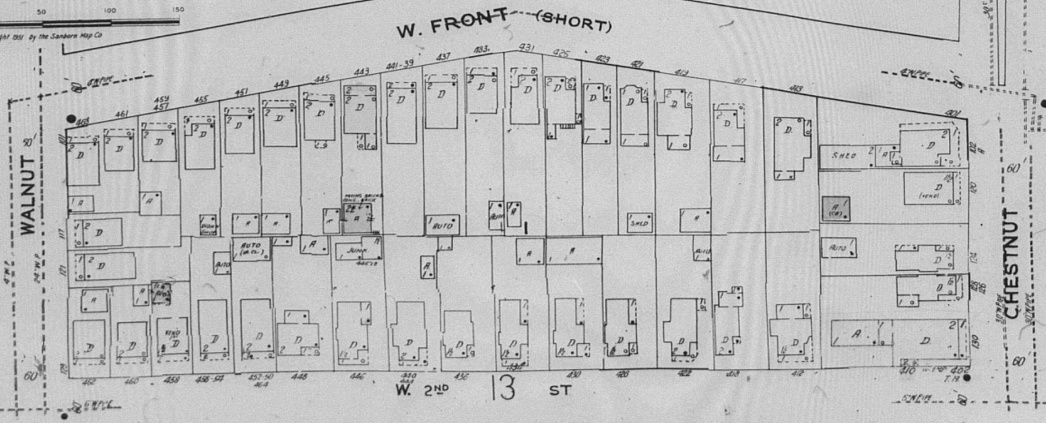
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Presque Isle Bay

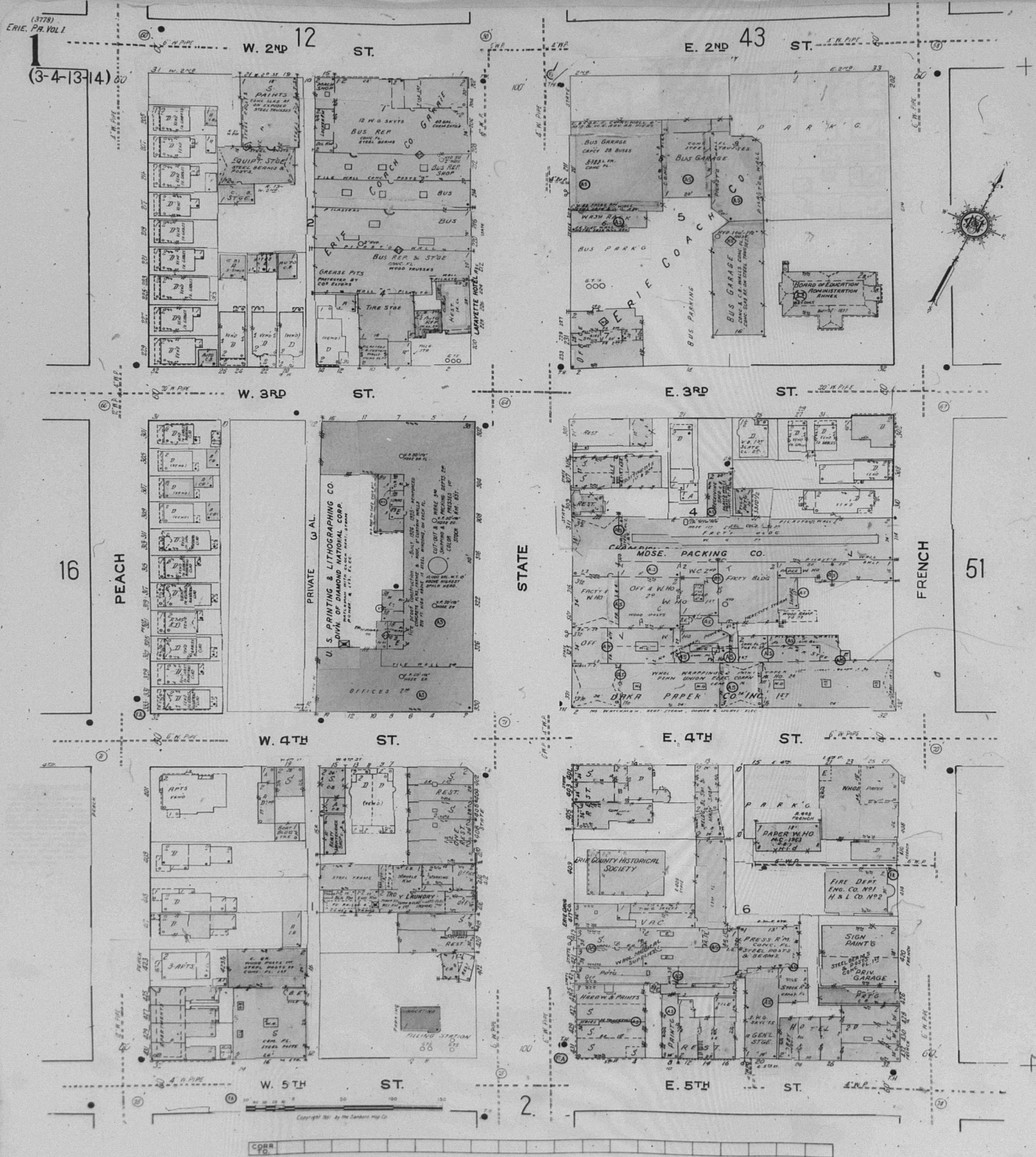
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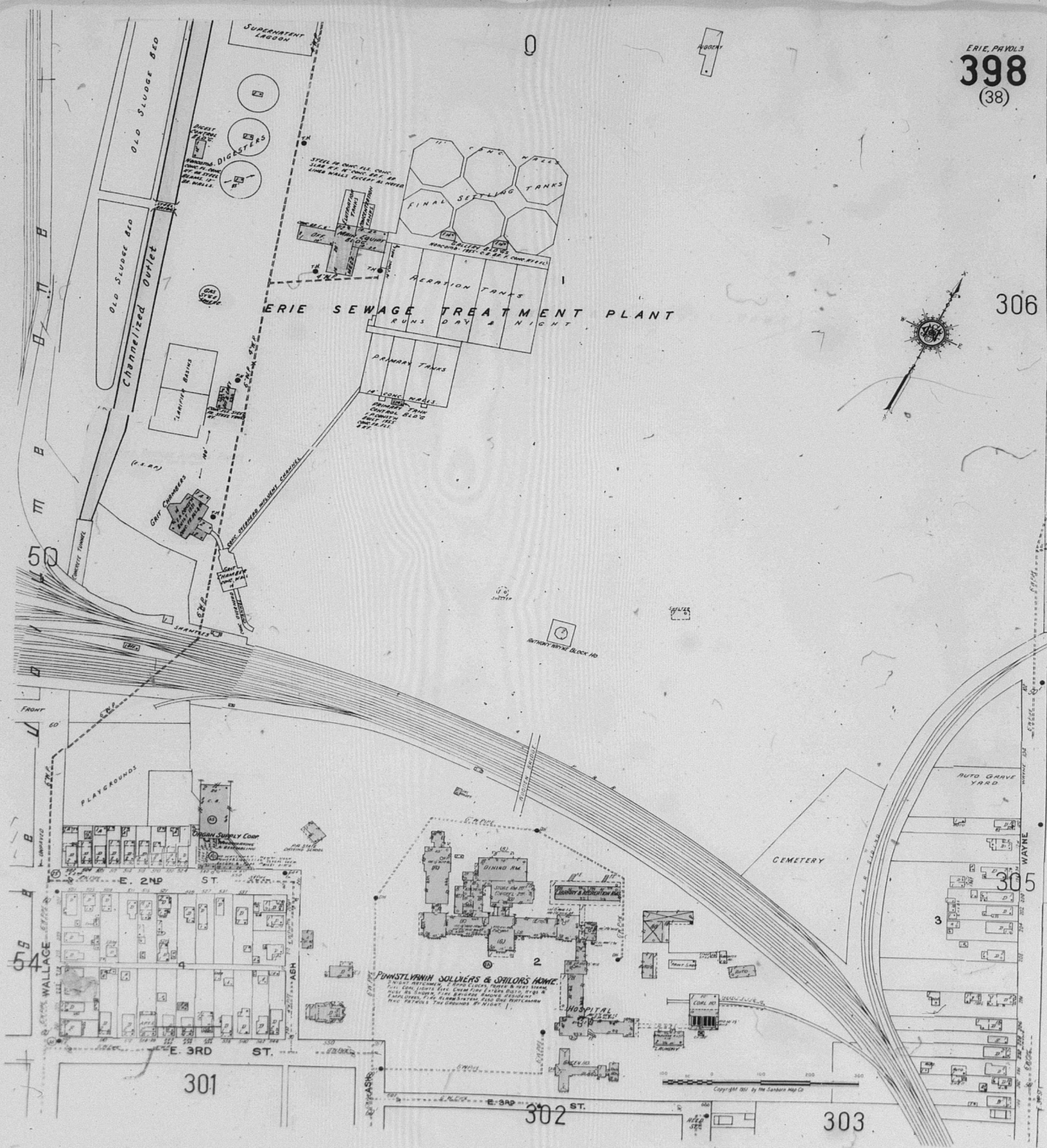
Copyright 1965 by the Sanborn Map Co.

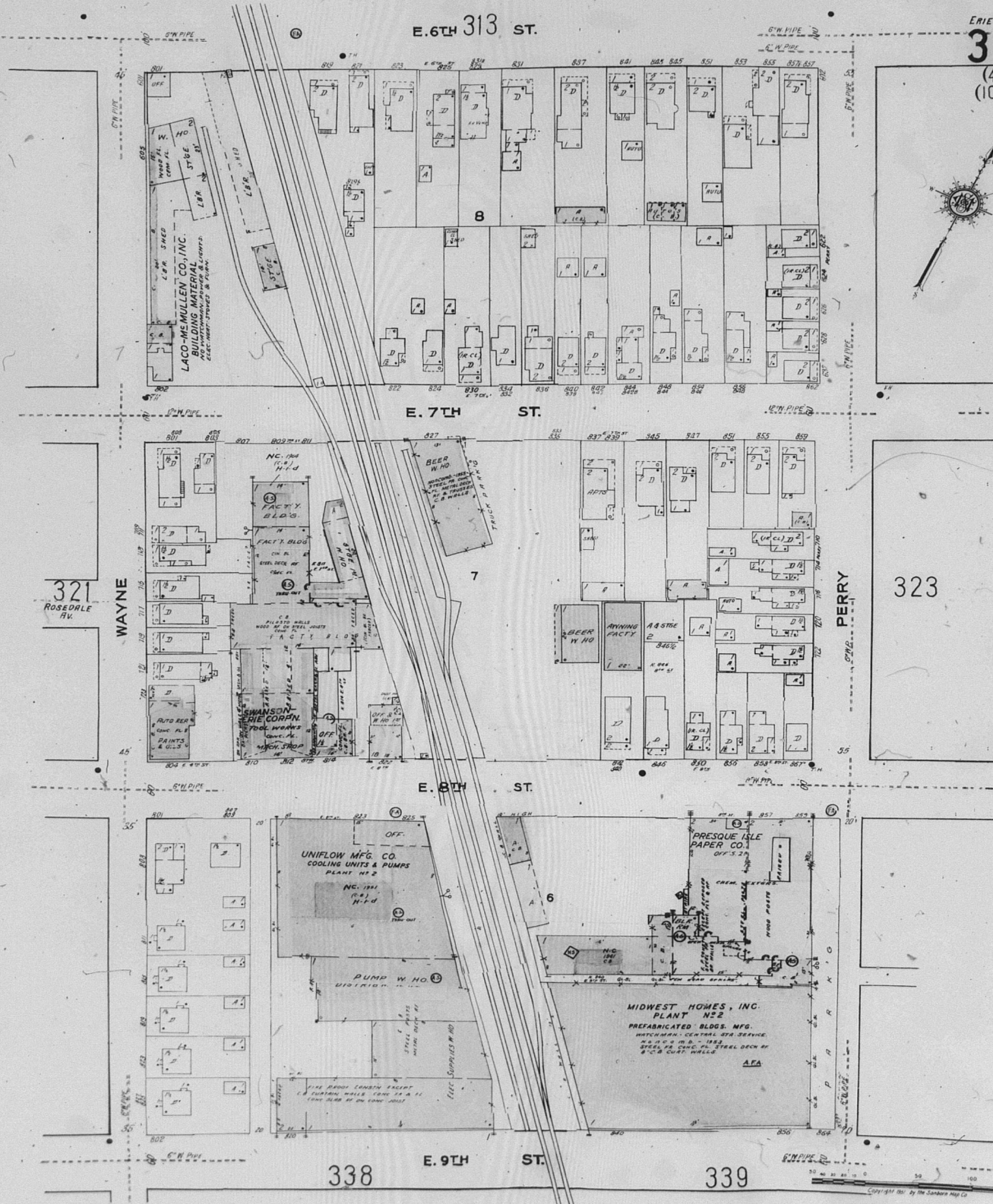


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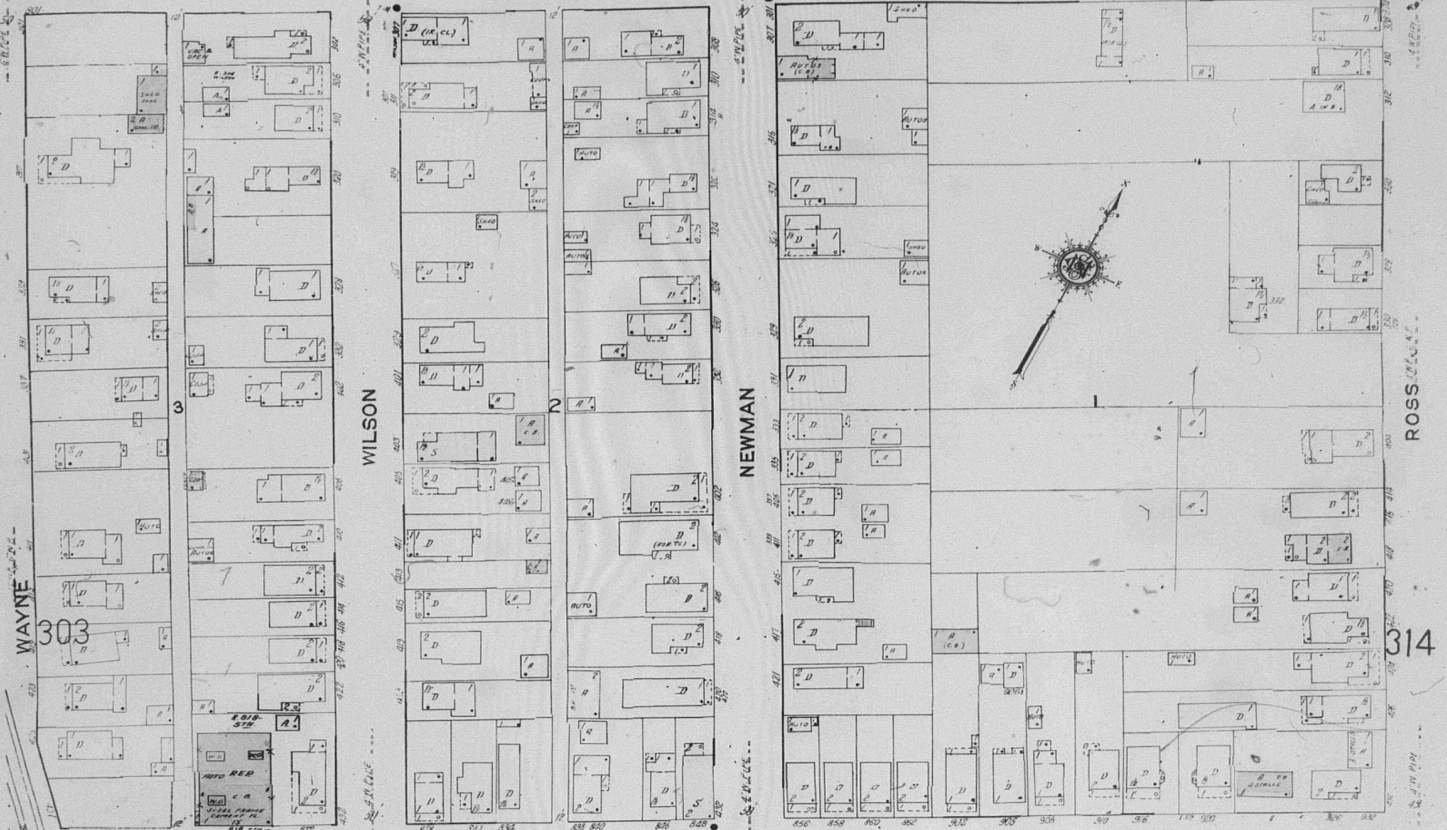


ERIE, PA. VOL. 3
313
(101-105)

311

E. 3RD ST.

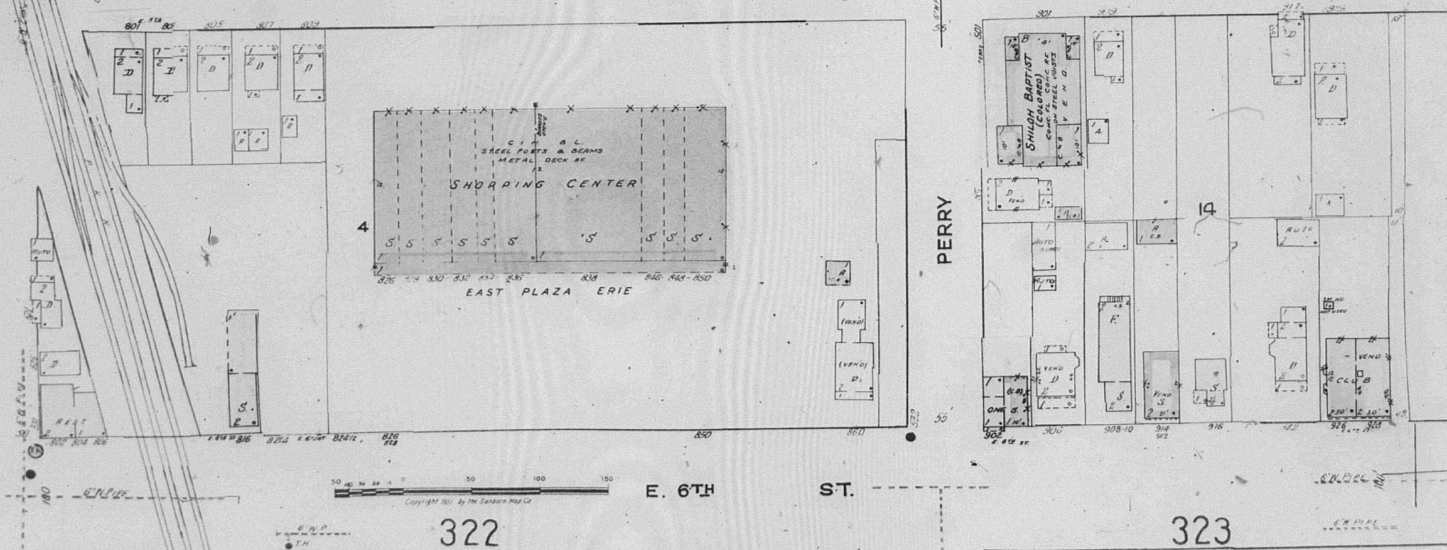
ST.



E. 5TH ST.

E. 6TH ST.

ST.



322

323

Sheet 313
1964

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ERIE PA VOL. 3
305
(311)

306

2

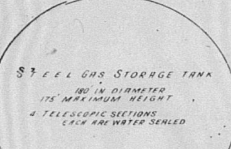
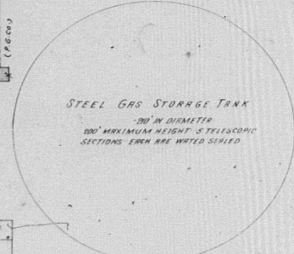
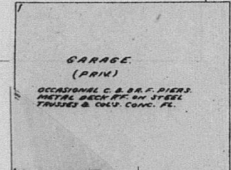
E. 1ST ST.

312

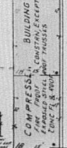
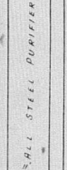
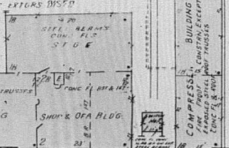
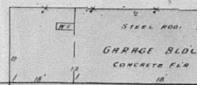
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398

WAYNE

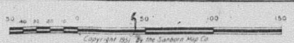


PENNSYLVANIA GAS CO.
ENCLOSED BY 67 WIRE FENCE
RUNS 24 HOURS
HEAT-STEAM EXCHANGER EXTERIOR INSULATED



E. 3RD ST.

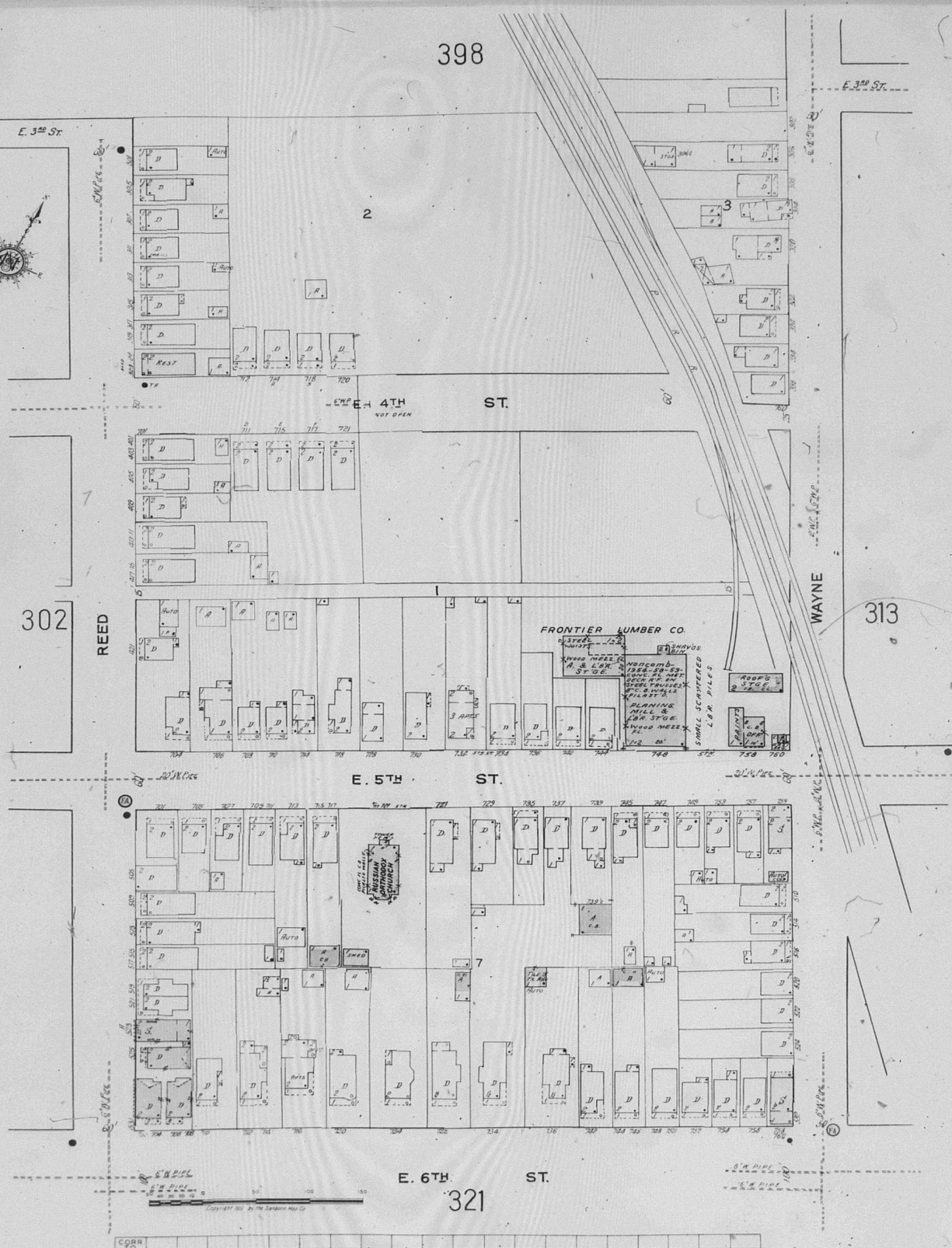
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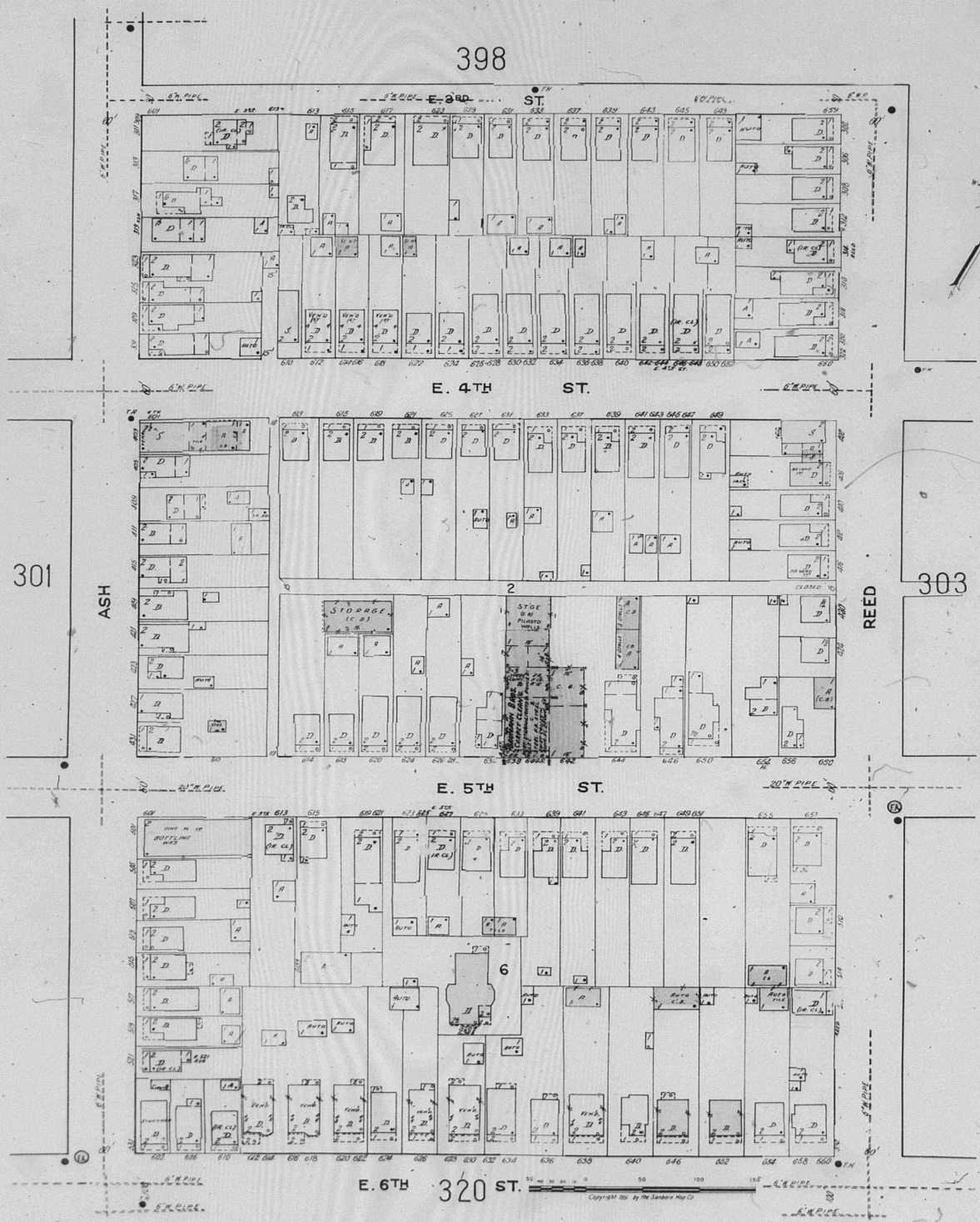


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Sheet 305
1964

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17

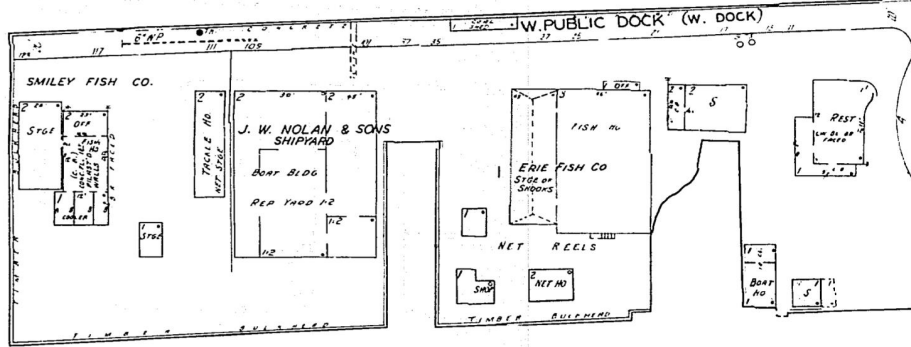
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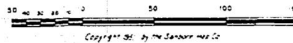
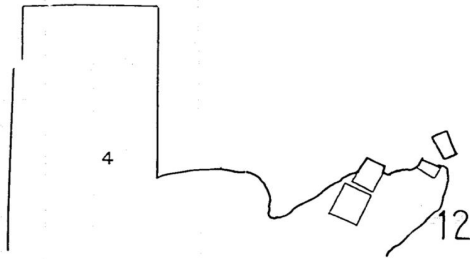
P r a s q u e I s l e B a y

83

CEMENT-MIX CONCRETE CO
SAND DOCK
See Sheet No. 11 for Report



W e s t C a n a l B a s i n



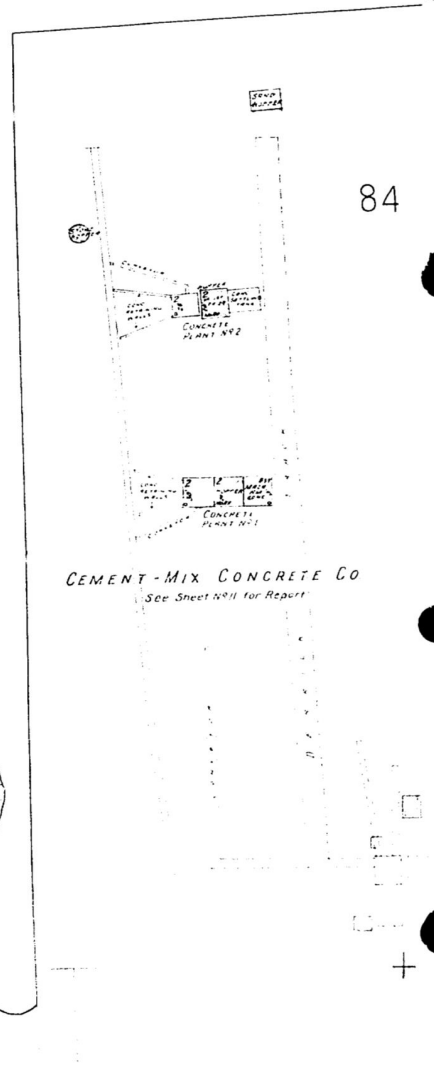
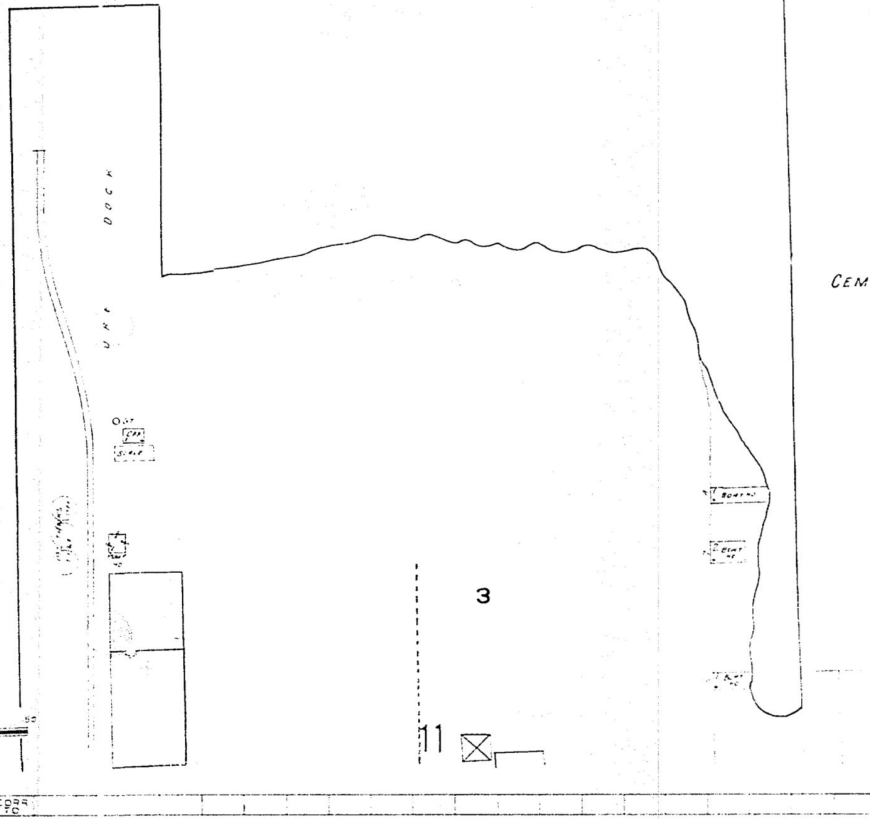
43

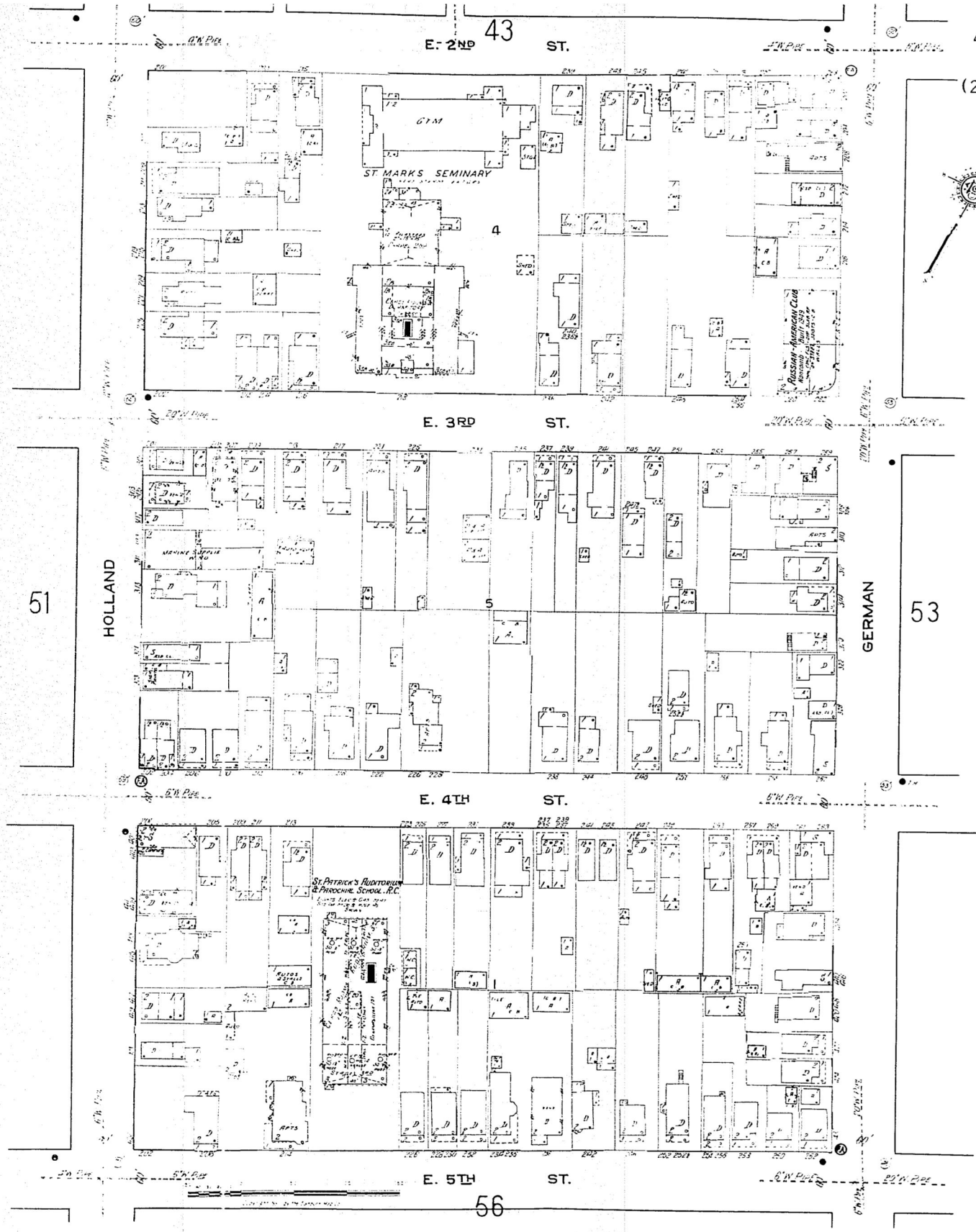
STATE

E a s t C a n a l B a s i n

CRANE

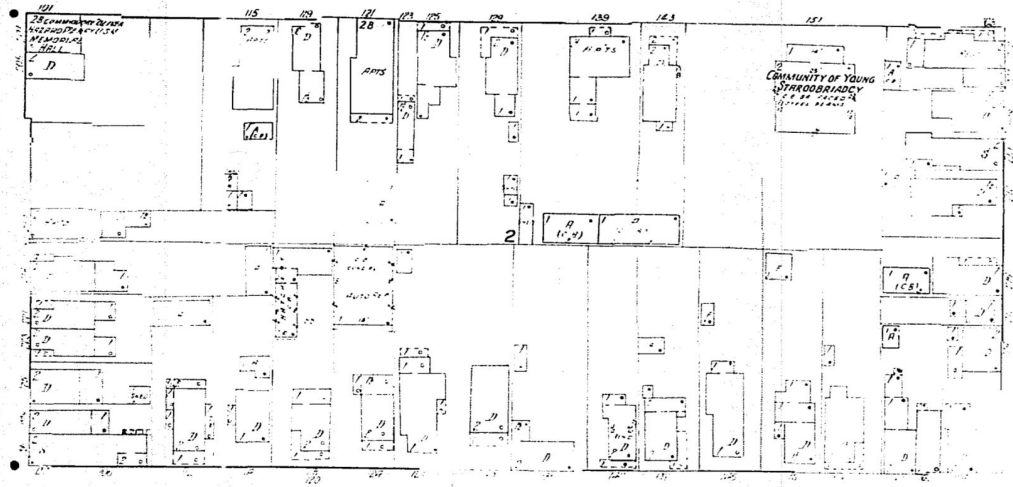
P r e s q u e l i s l e B a y



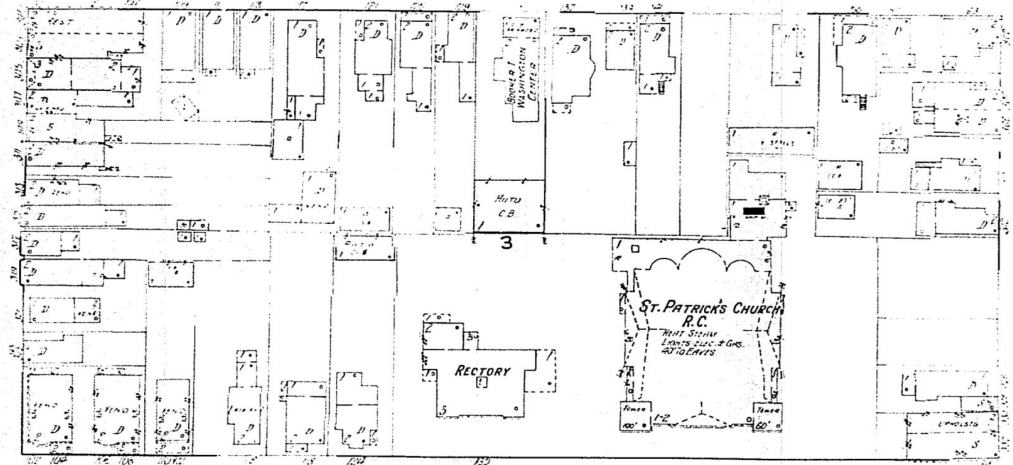


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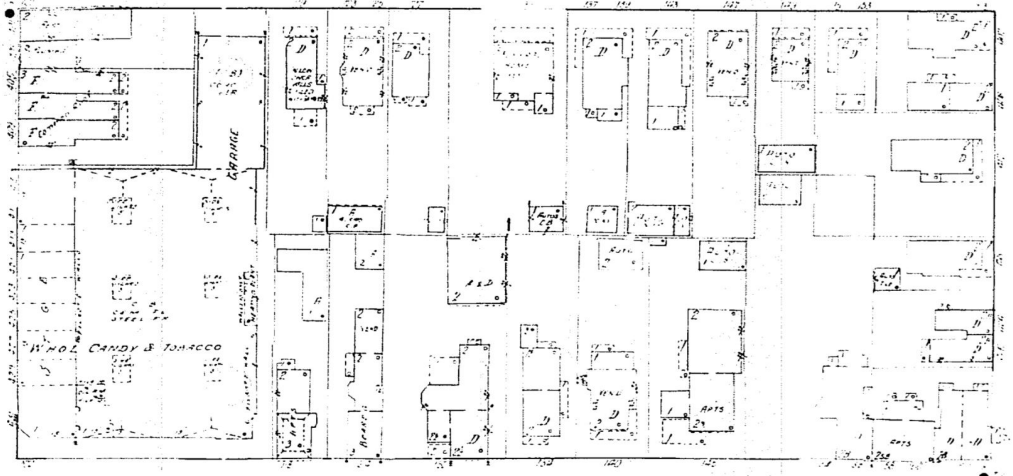
E. 2ND ST.



E. 3RD ST.



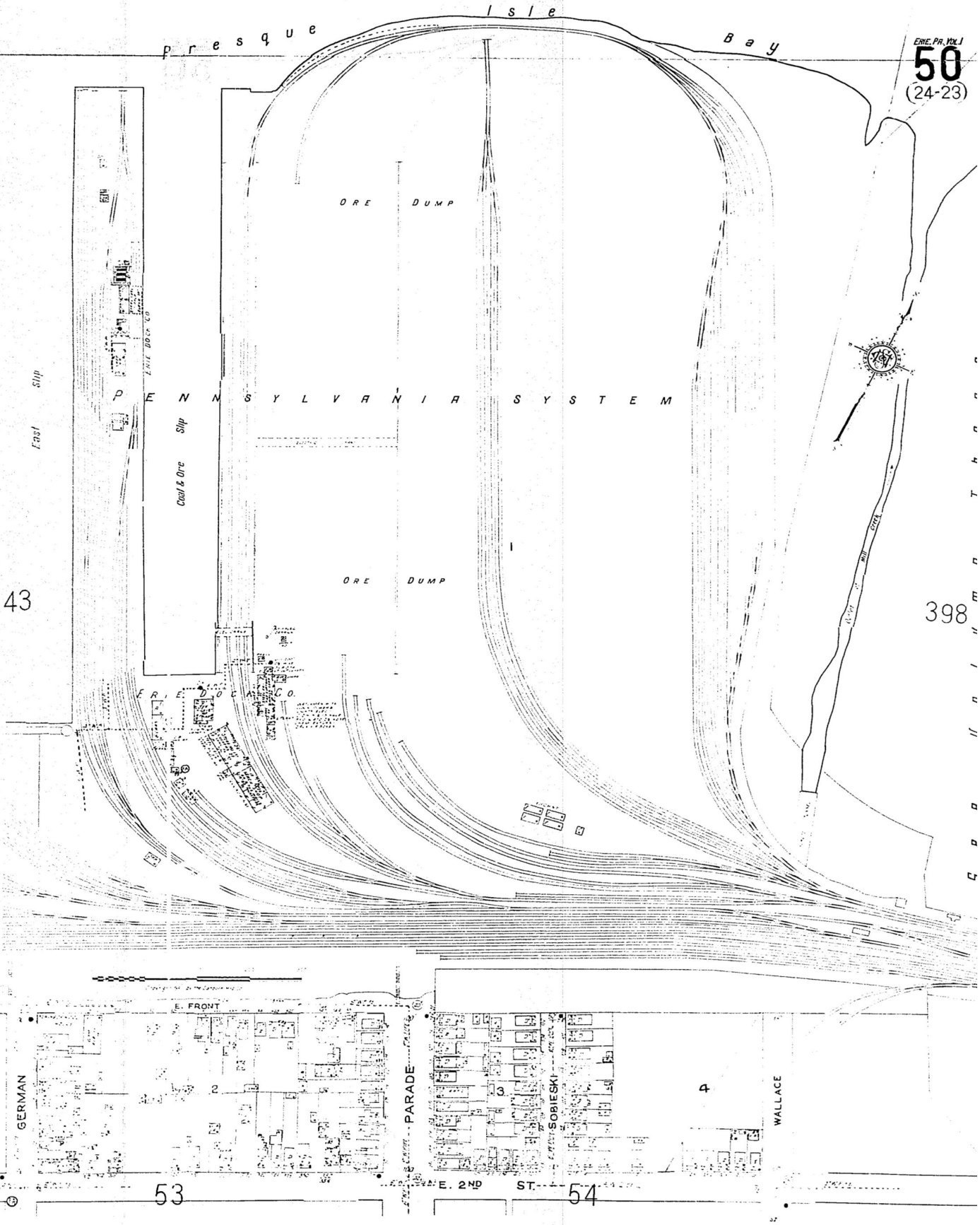
E. 4TH ST.



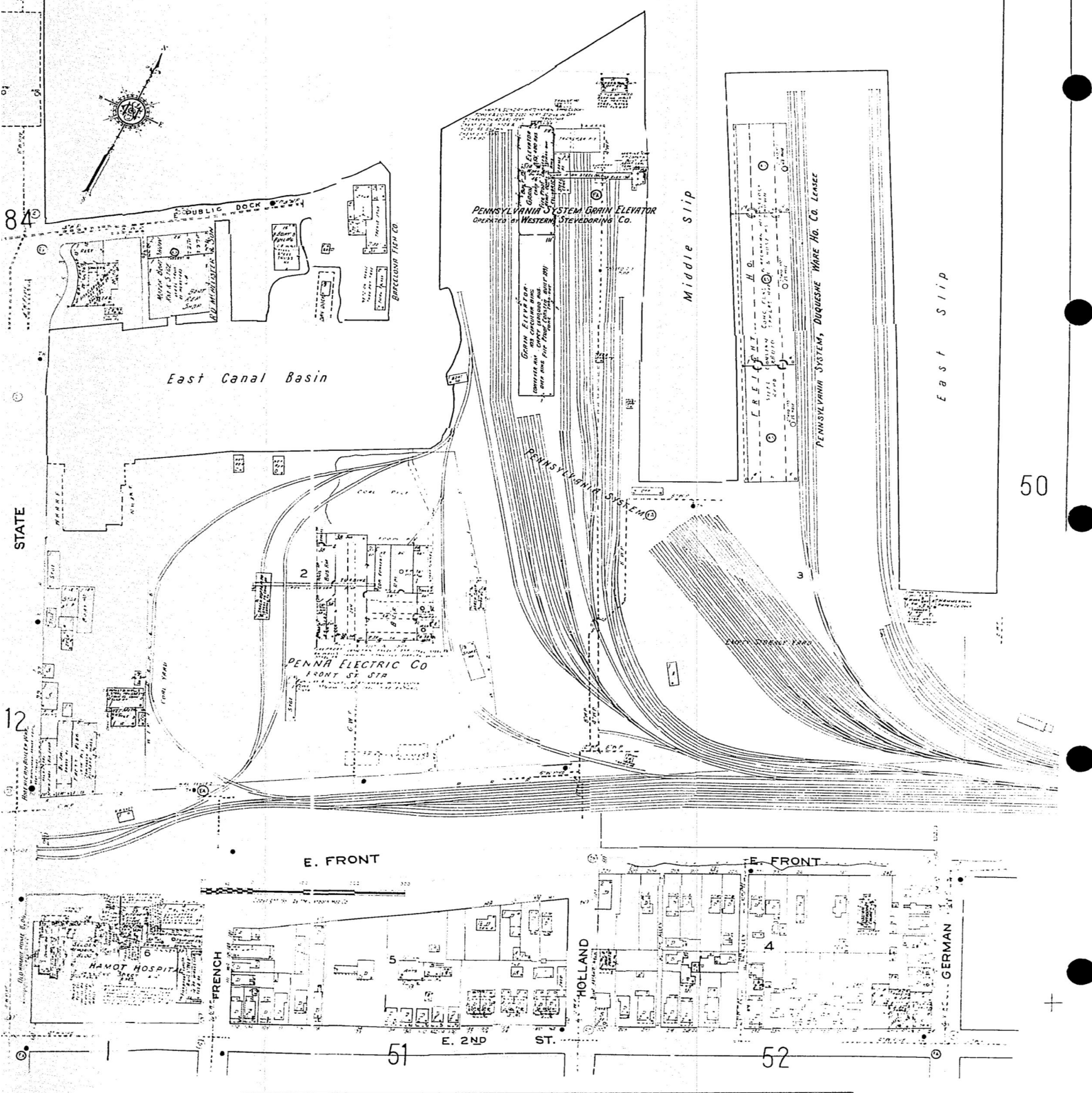
E. 5TH ST.

COPY TO

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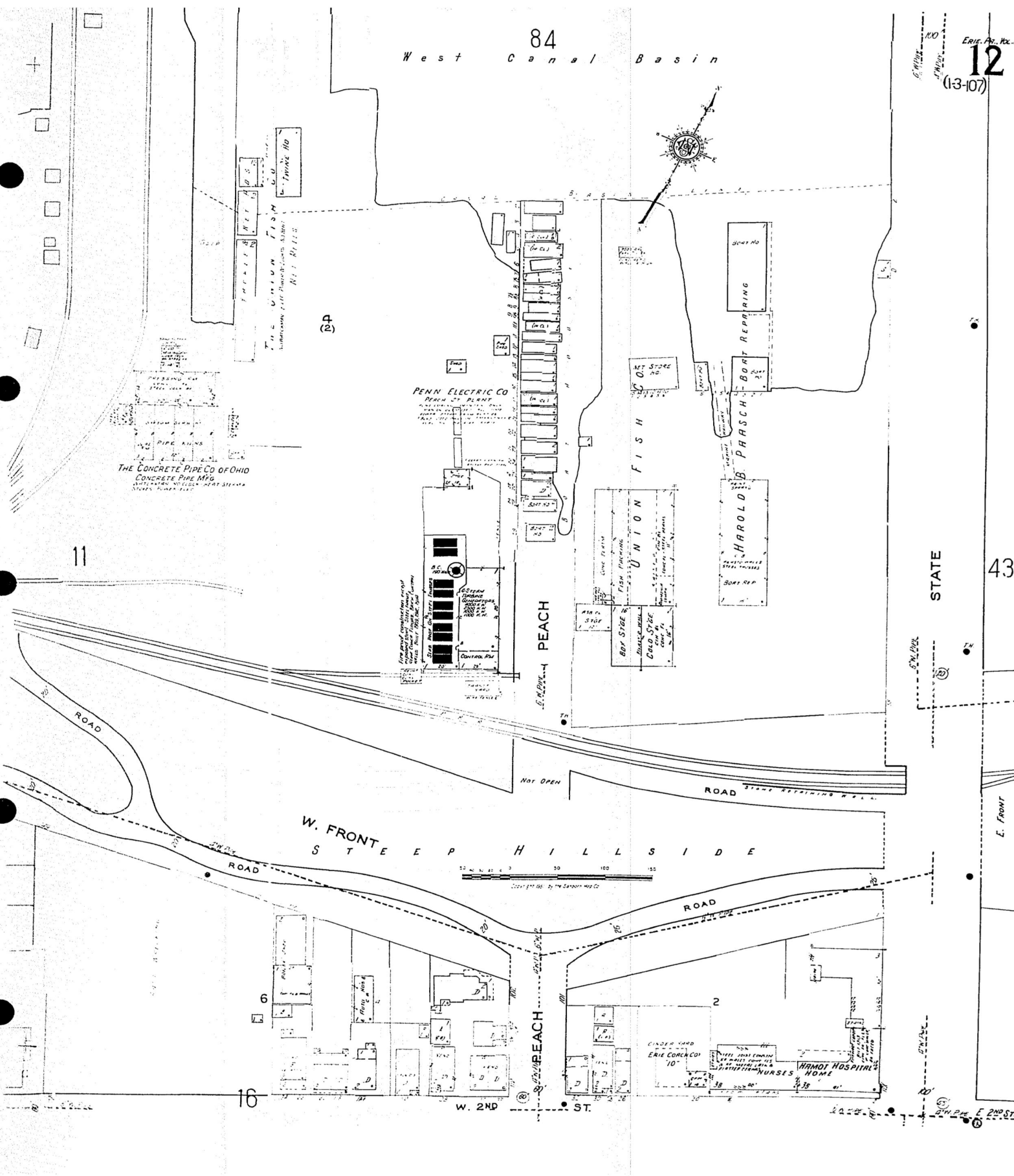


Presque Isle Bay



50

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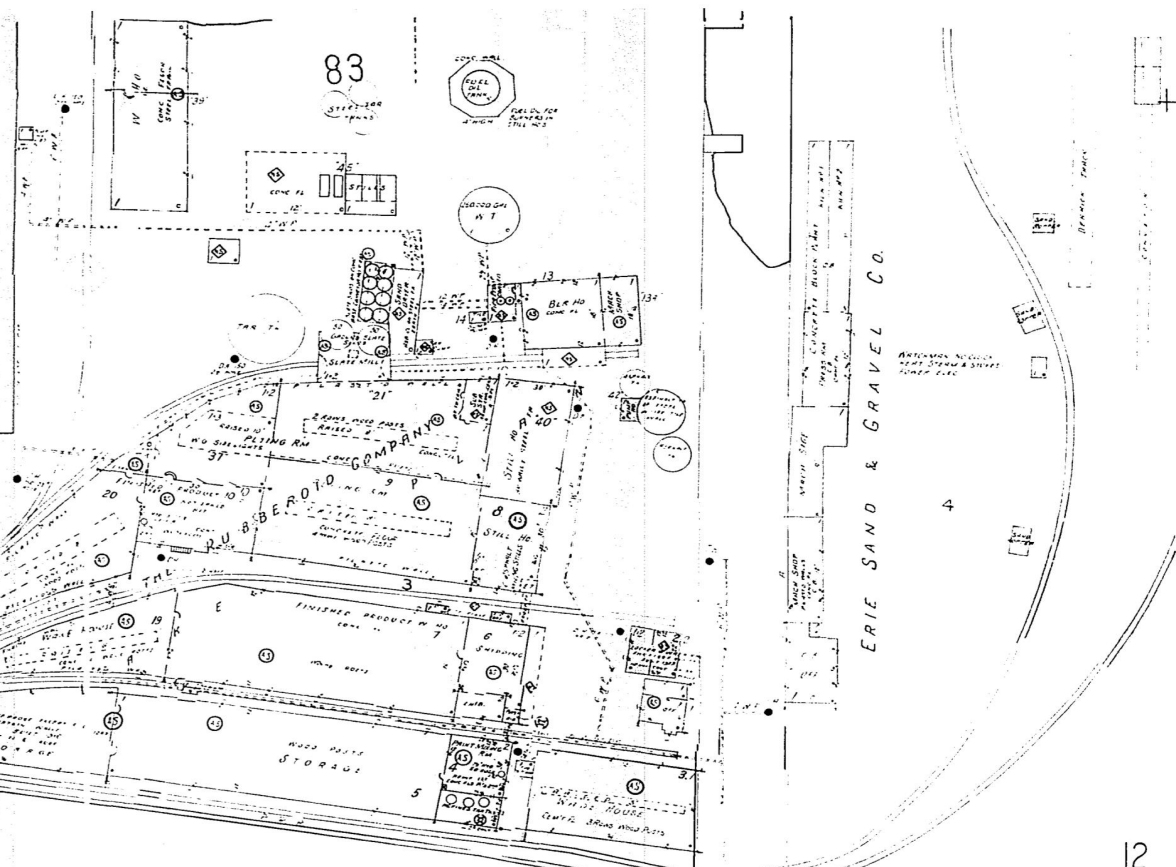


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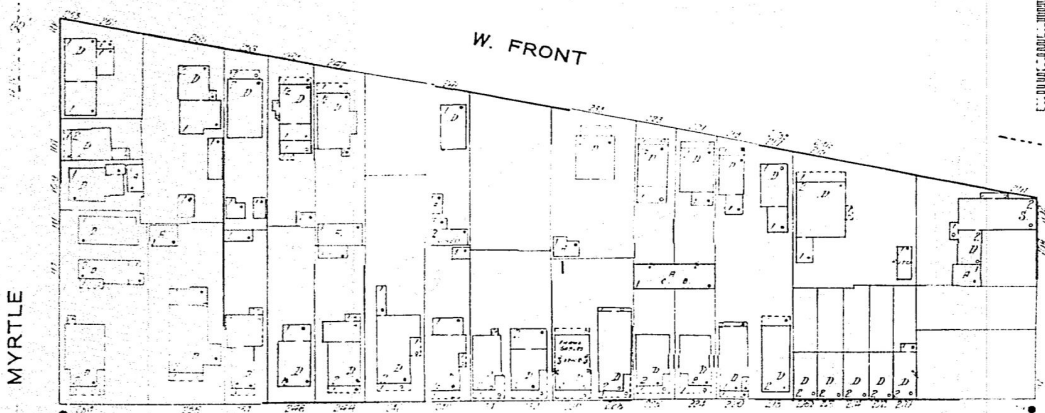
Presque Isle Bay

THE RUBBEROID CO. - LAKE PLANT
Map of Erie & River Fronts
E. I. A. 8124

DATE: 1951
BY: [illegible]
[illegible]
[illegible]



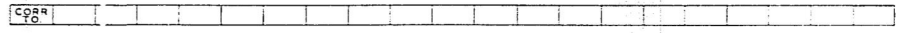
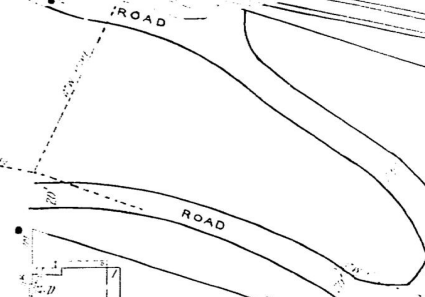
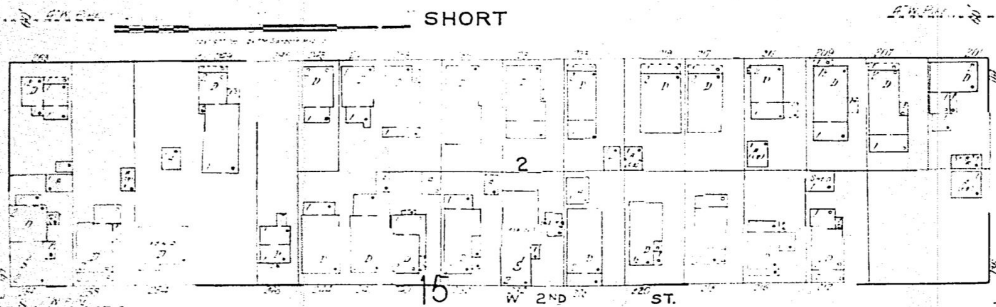
STEEP HILLSIDE



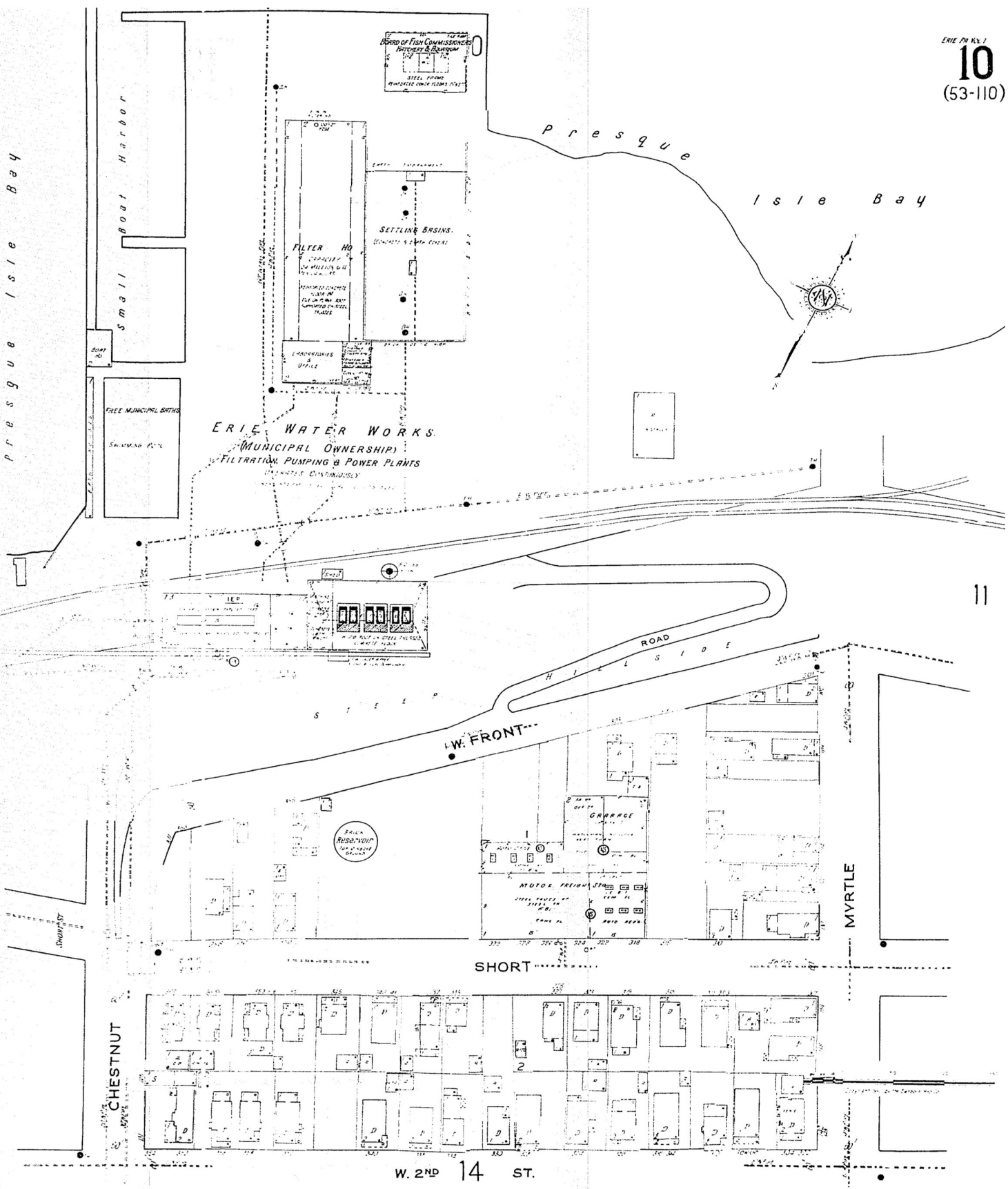
MYRTLE

C. DUBOIS, ENGINEER

SASSAFRAS



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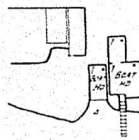
11

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W
T
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Presque Isle Bay



10

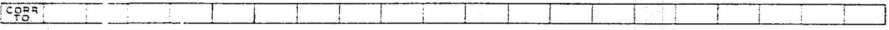
STEEP HILLSIDE

W. FRONT (SHORT)

WALNUT

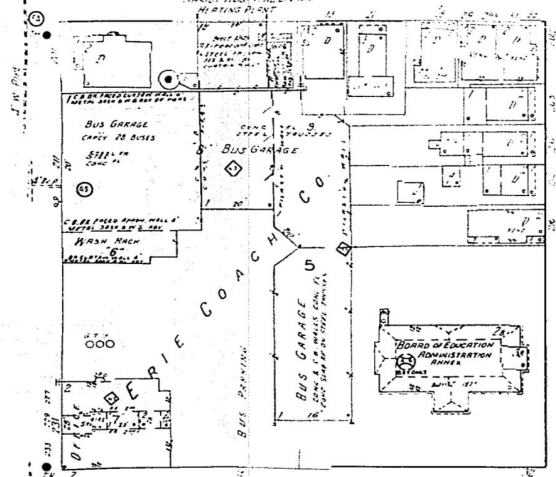
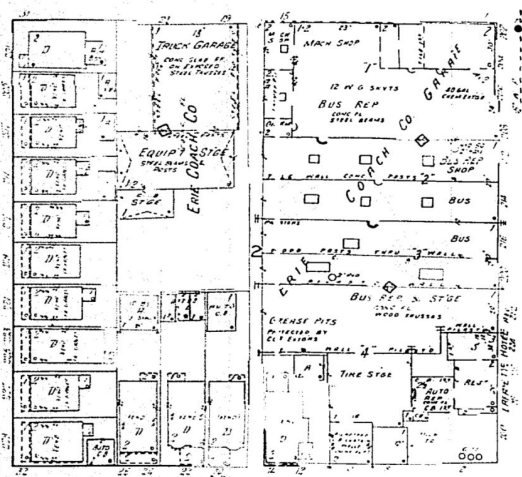
CHESTNUT

W. 2ND 13 ST

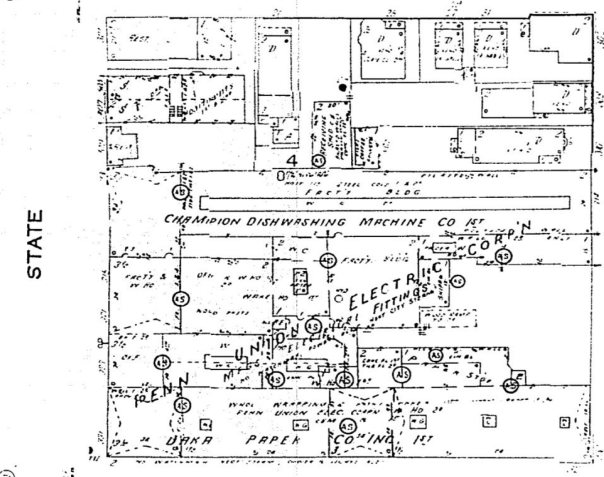
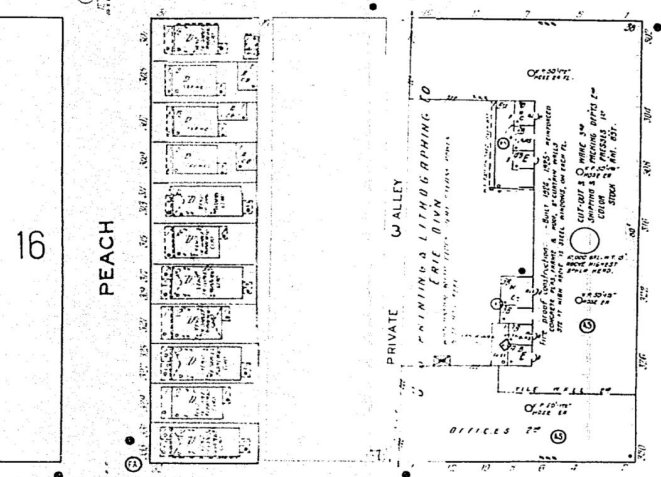


W. 2ND 12 ST. E. 2ND 43 ST.

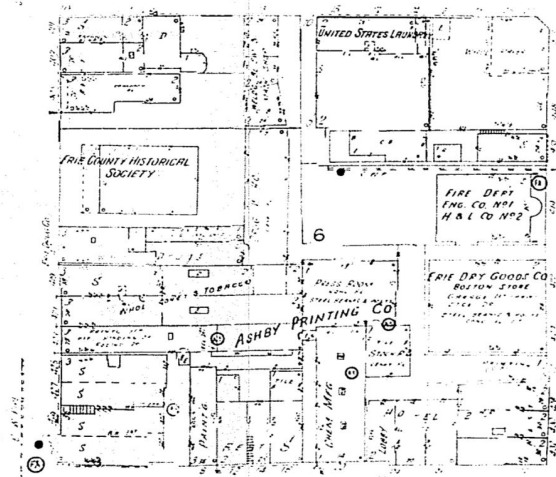
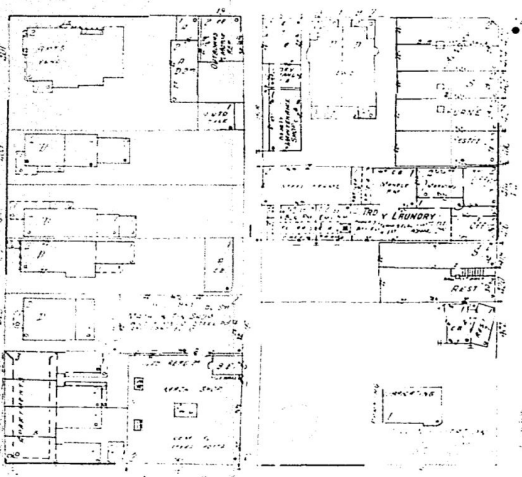
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W. 3RD ST. E. 3RD ST.

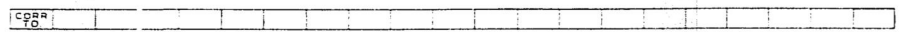


W. 4TH ST. E. 4TH ST.



W. 5TH ST. E. 5TH ST.

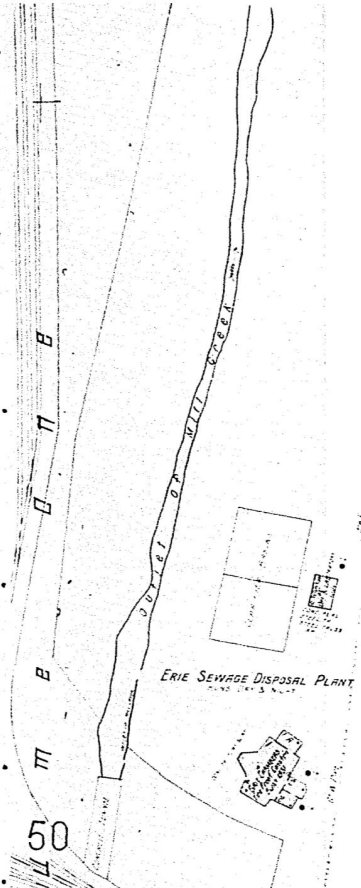
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PENNSYLVANIA SOLDIERS & SAILORS HOME

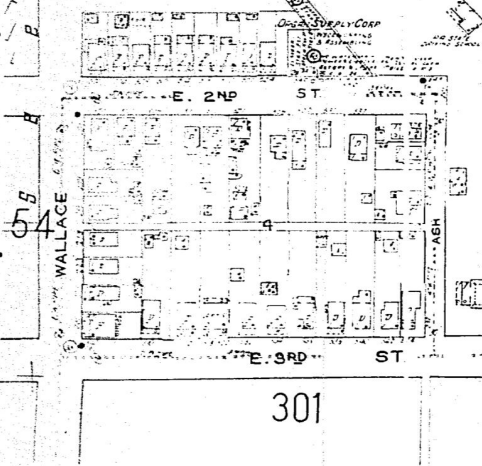


306

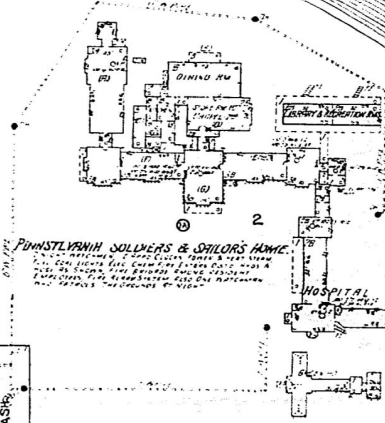


ERIE SEWAGE DISPOSAL PLANT

50



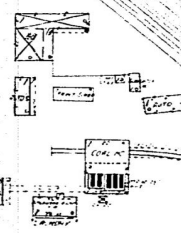
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PENNSYLVANIA SOLDIERS & SAILORS HOME

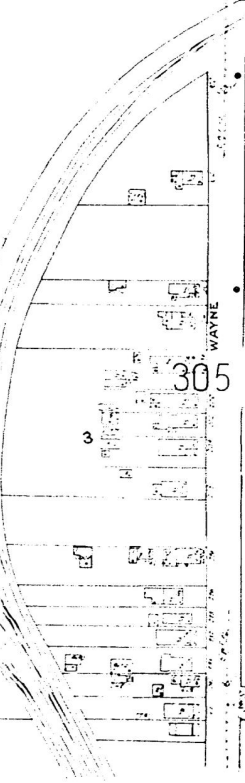
HOSPITAL

302



CEMETERY

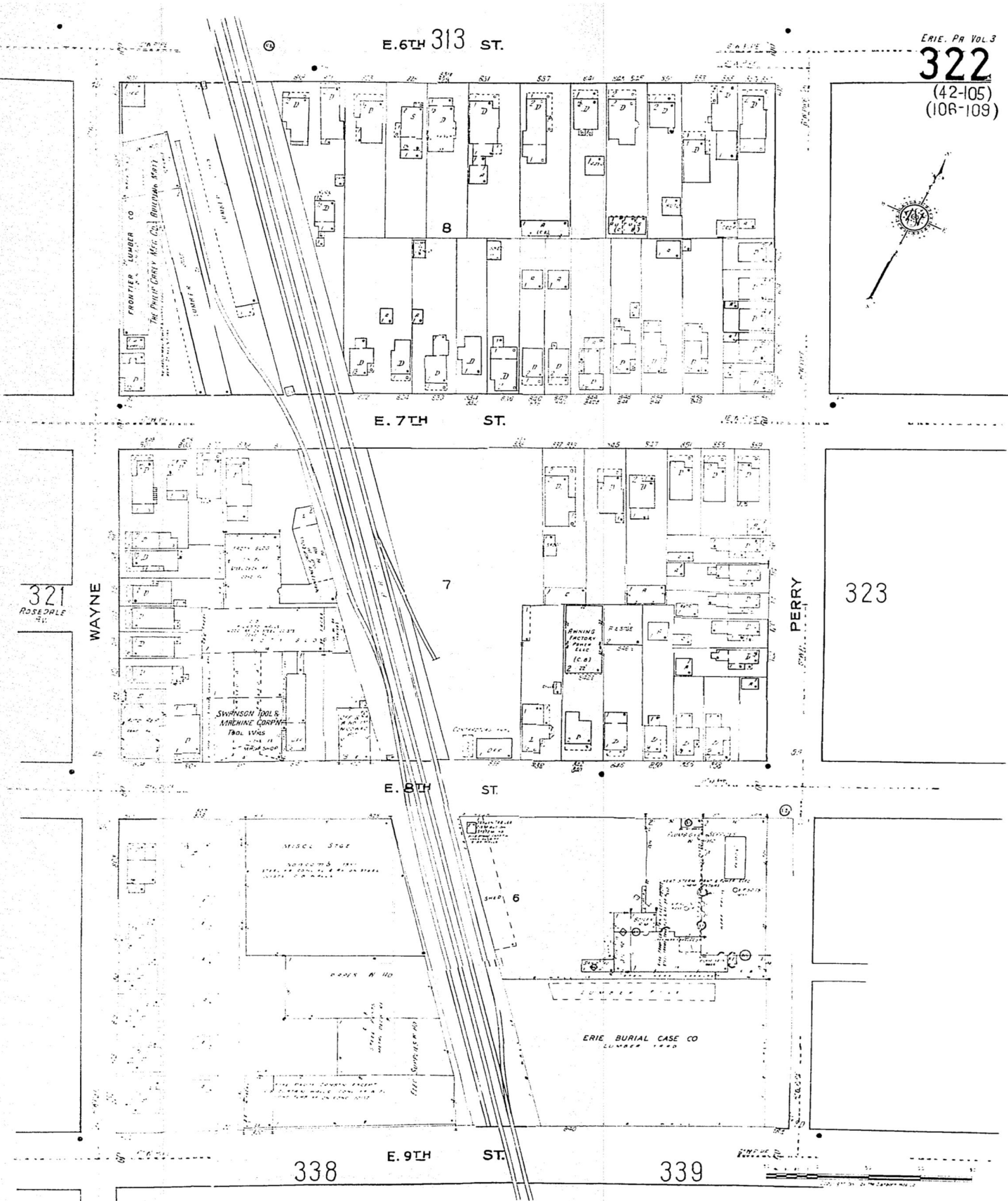
303



305

306

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E. 6TH 313 ST.

E. 7TH ST.

E. 8TH ST.

E. 9TH ST.

WAYNE

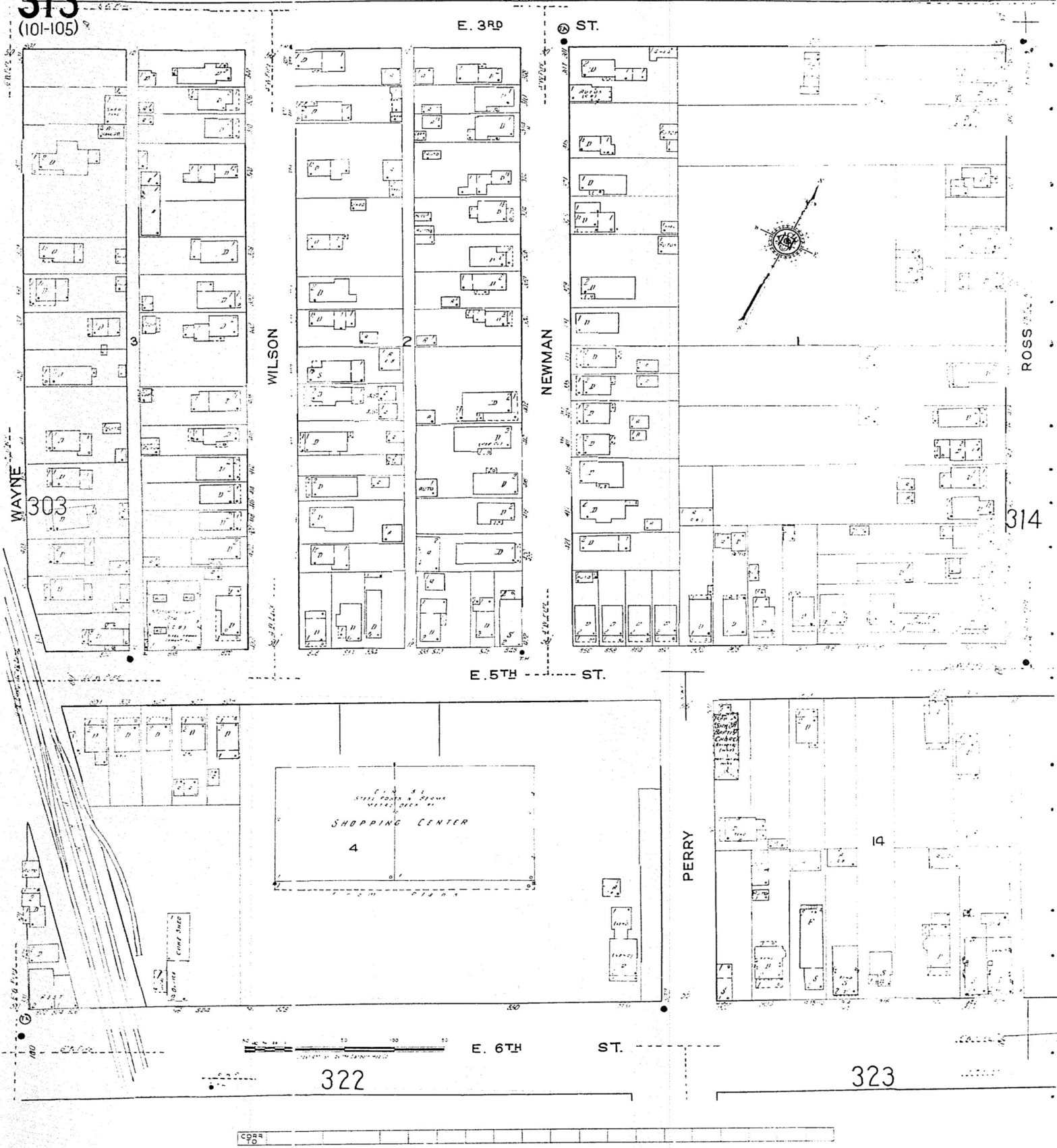
PERRY

321
ROSEDALE

323

338

339



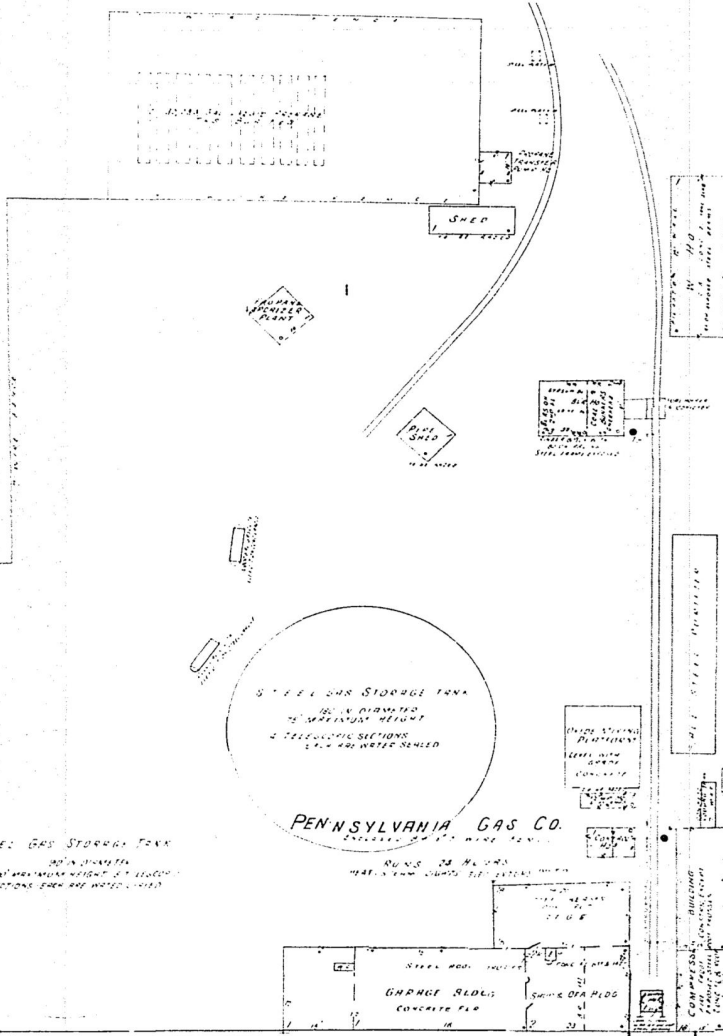
E. 1ST ST.

312

3

E. 3RD ST.

313



STEEL GAS STORAGE TANK
DIAMETER 100 FEET
HEIGHT 20 FEET
SECTIONS ARE NOT INDICATED

PENNSYLVANIA GAS CO.
ENGINEERING DEPARTMENT

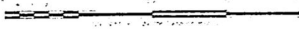
GAS STORAGE BUILDING
CONCRETE FLD

CO. 20

WILSON ST.

NEWMAN ST.

2000 ST.



398

E. 3RD ST.

E. 3RD ST.

2



E. 4TH ST.
NOT OPEN

ST.

302

REED

WAYNE

313

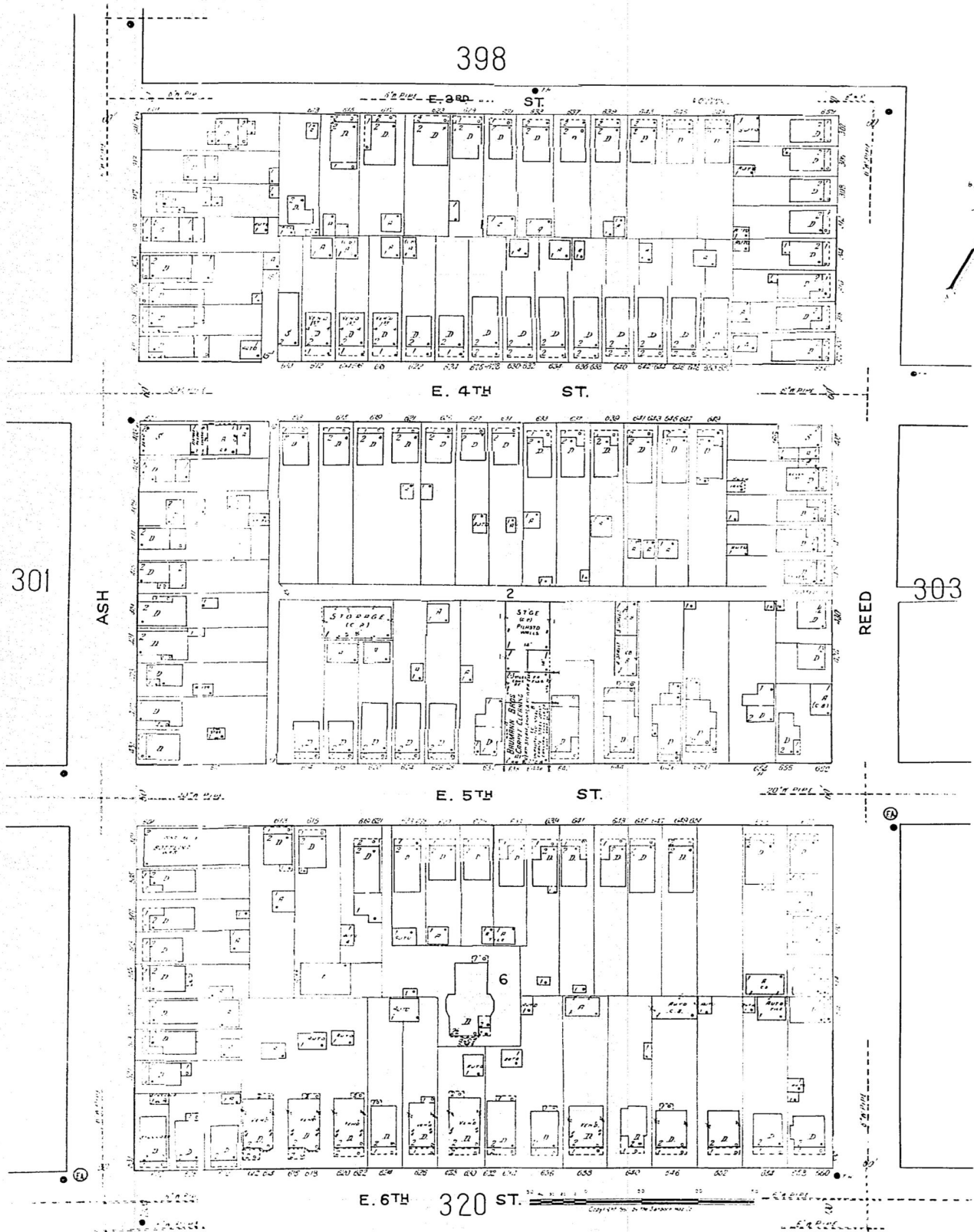
E. 5TH ST.

ST.

E. 6TH ST.

321

COPY



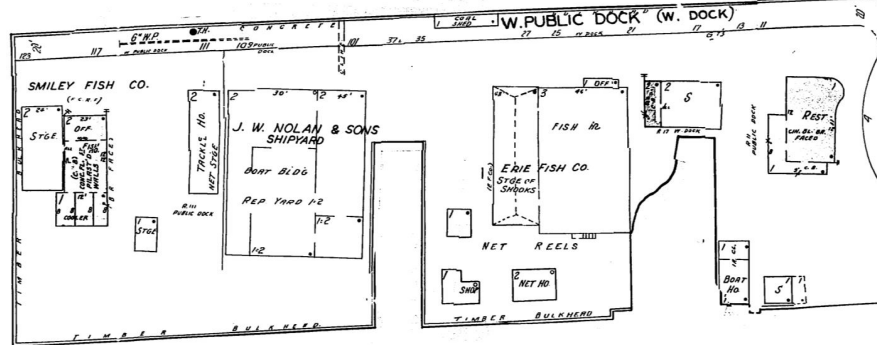
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Presque Isle Bay

83

CEMENT-MIX CONCRETE CO
SAND DOCK
See Sheet 8411 for Report



West Canal Basin.

PUBLIC STEAMBOAT LANDING

STEEL & CONG. DECK ELEV. 35
UNDER CASE
0.25' STORMWATER

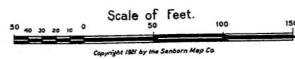
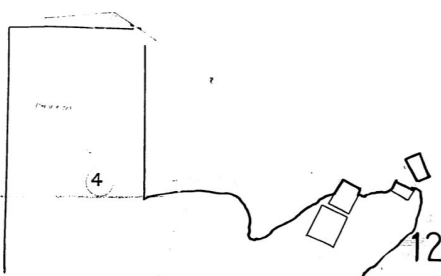
PUBLIC STEAMBOAT LANDING

STATE

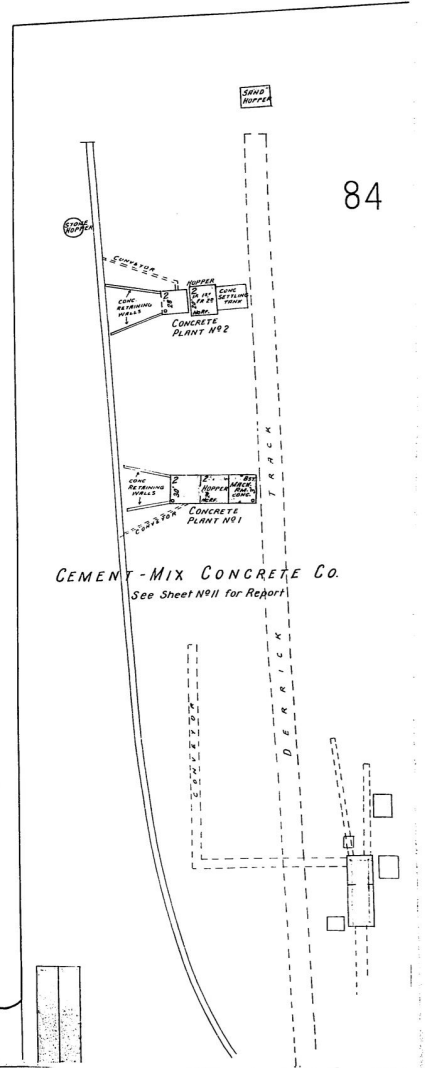
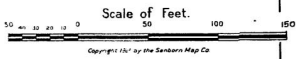
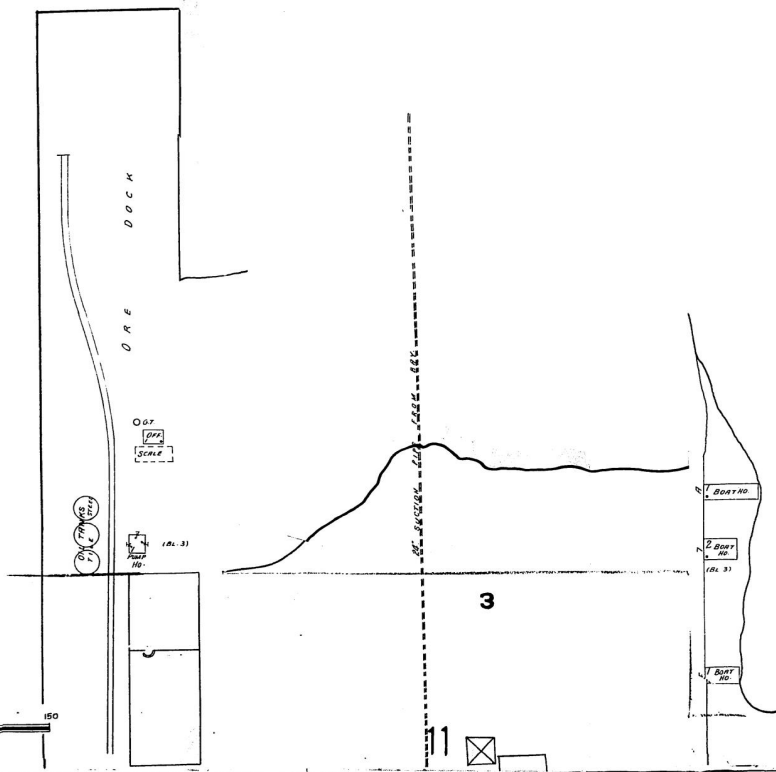
43

EAST CANAL BASIN

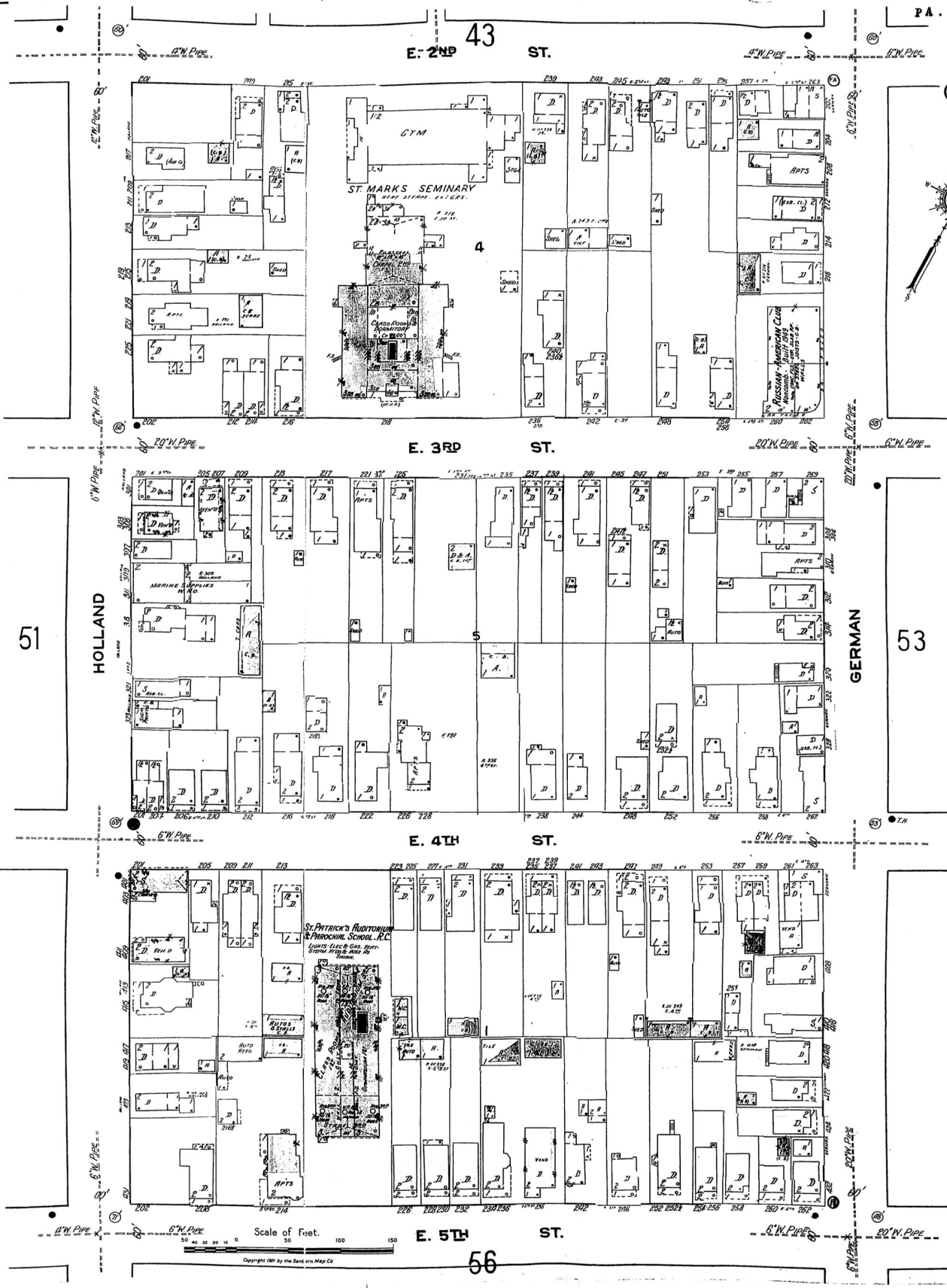
BRIDGE



P r e s q u e l i s l e B a y



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43 ST.

E. 3RD ST.

E. 4TH ST.

E. 5TH ST.

51

HOLLAND

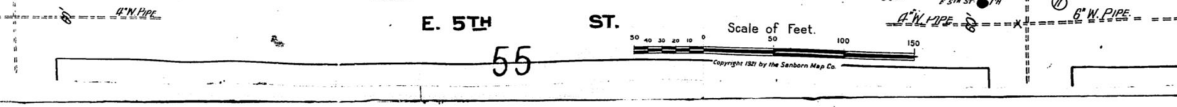
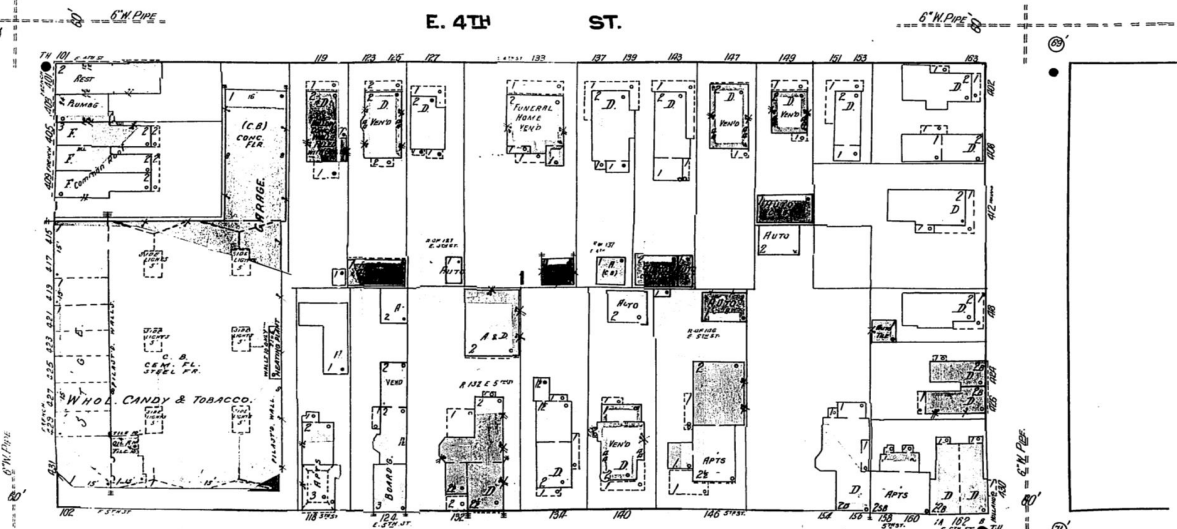
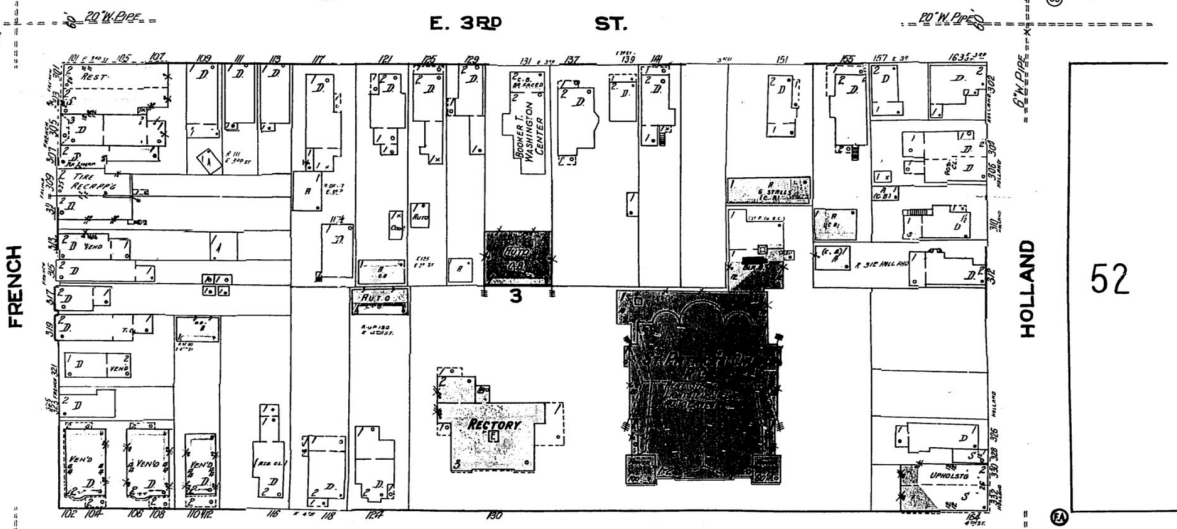
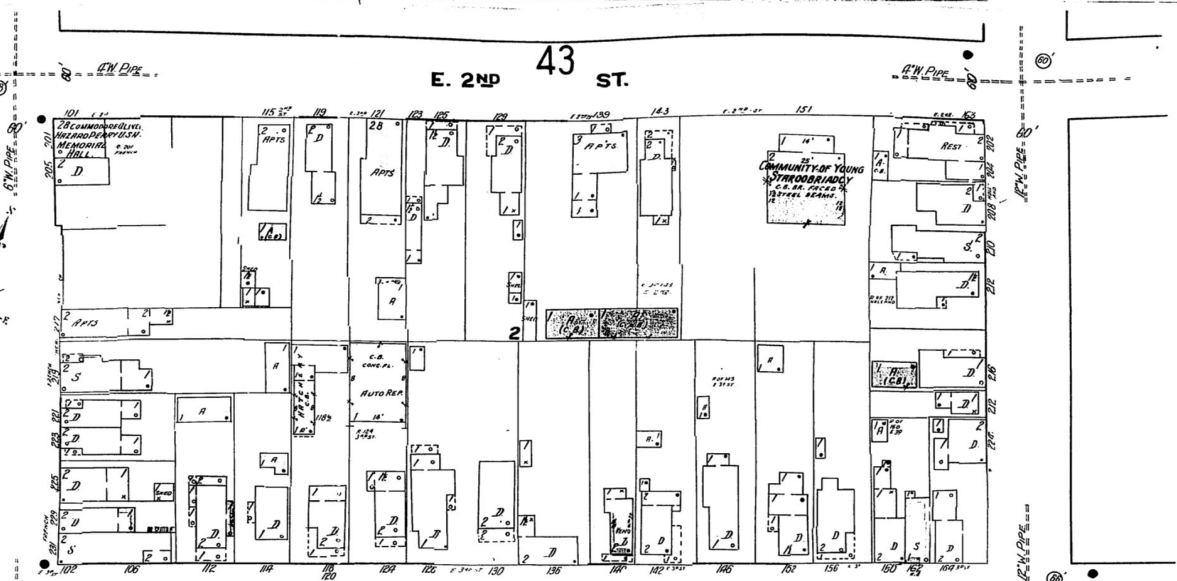
GERMAN

53

56

Sheet 52
1950

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presque

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PA. . . . 014

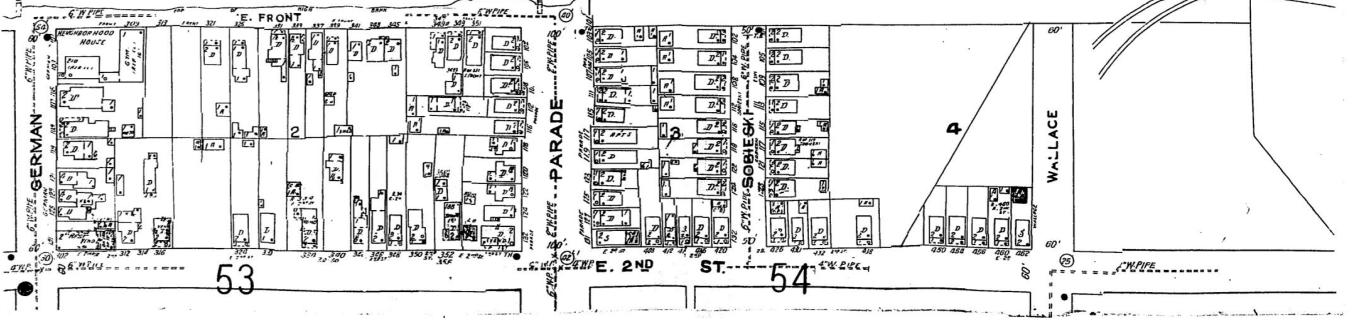
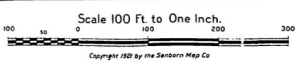
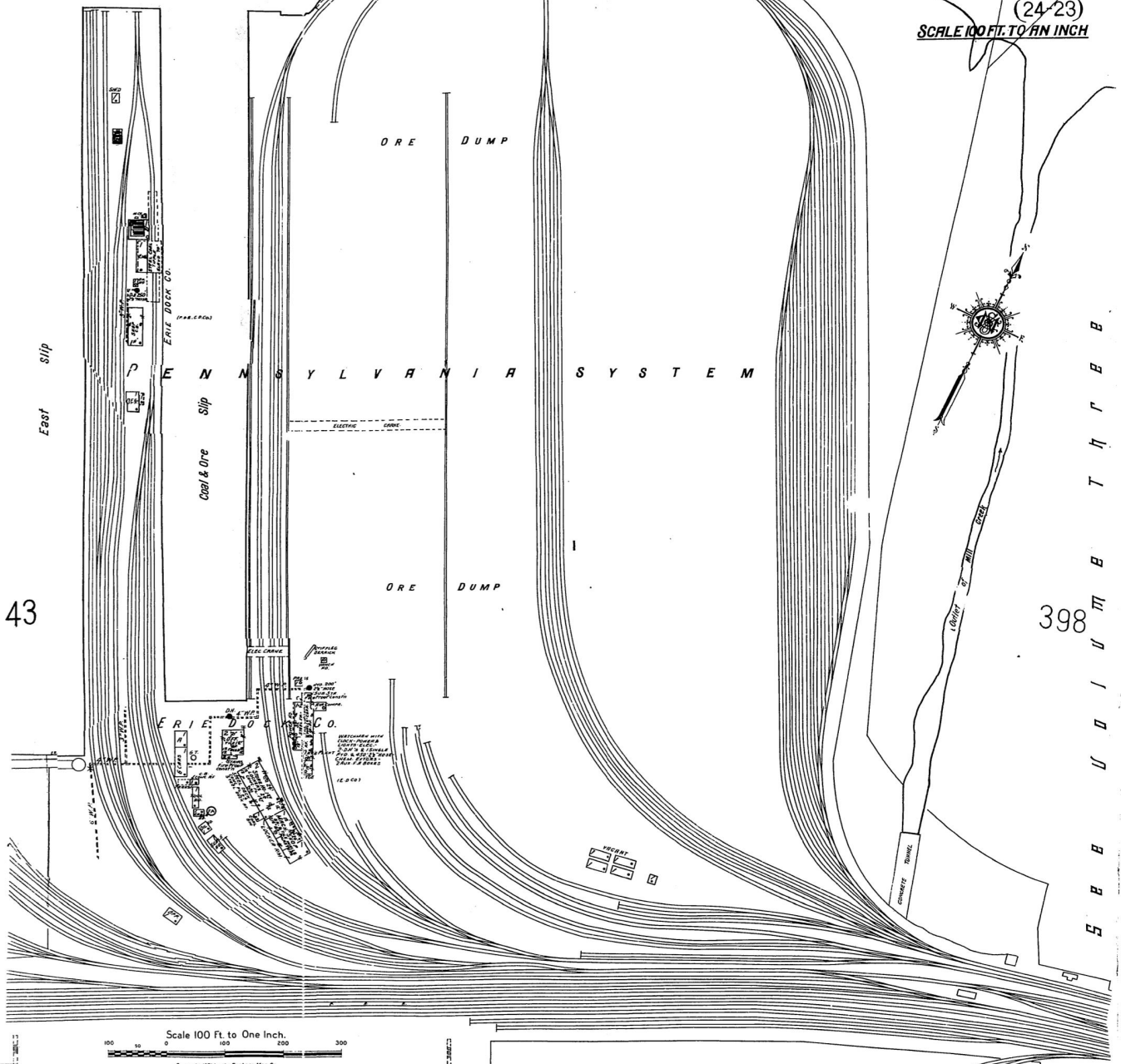
(1978)

ERIE, PA. VOL. I

50

(24-23)

SCALE 100 FT. TO AN INCH



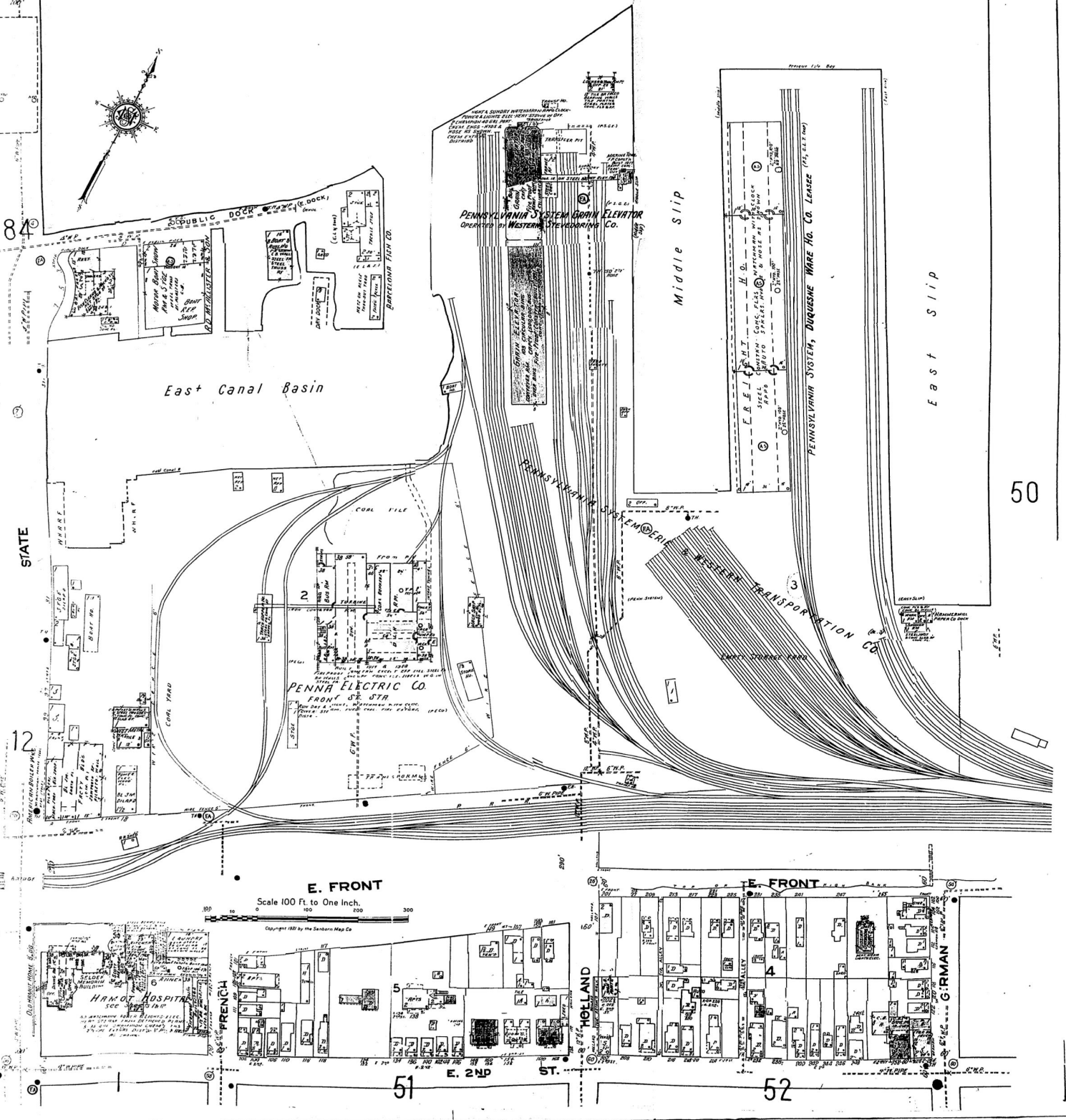
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(3718)
ERIE, PA. VOL. I
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(213-23-24)

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Presque Isle Bay

SCALE 100 FT. TO AN INCH

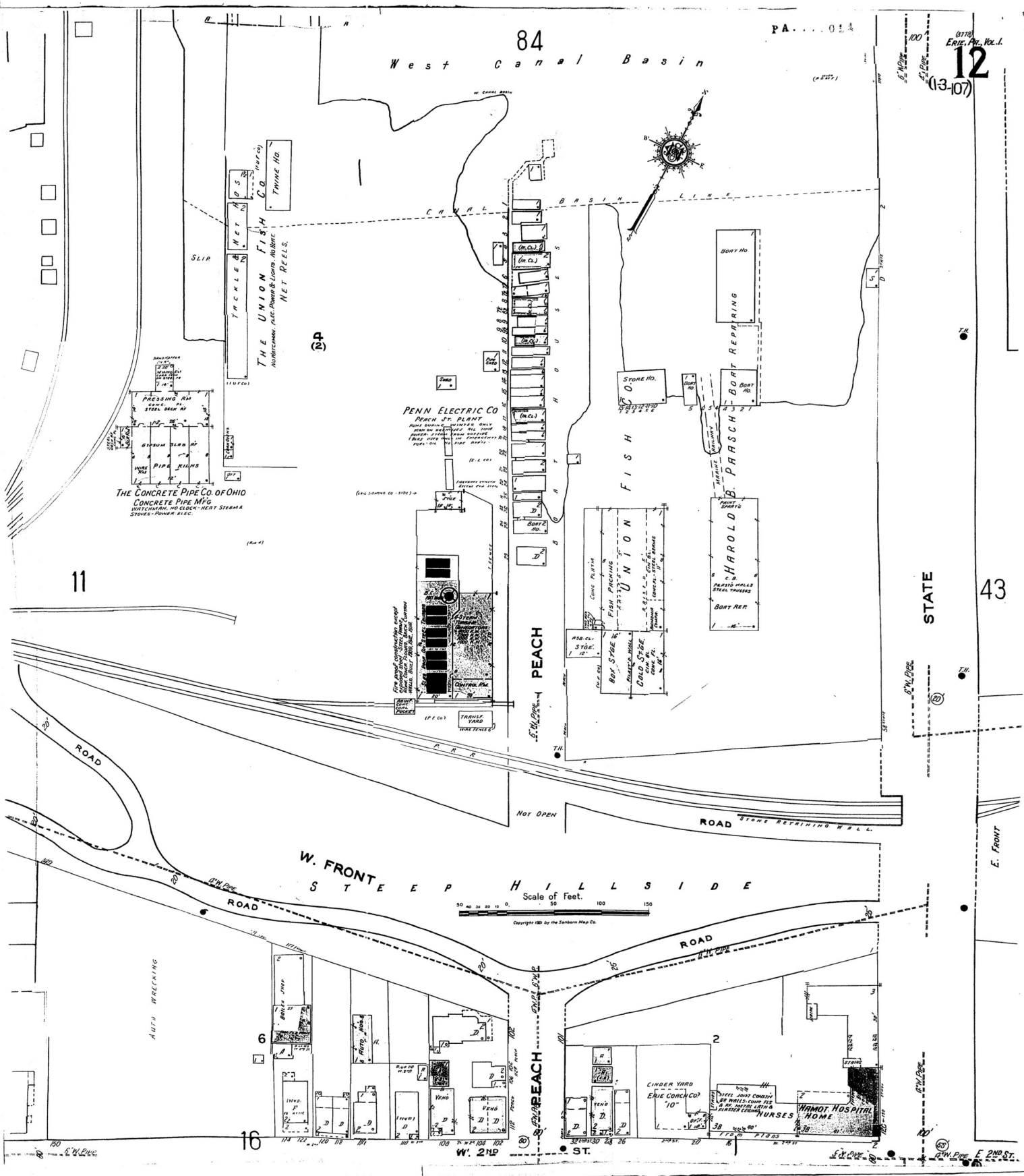


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84 West Canal Basin

P.A. 014

0178 Erie, Pa. Vol. I
12
(13-107)



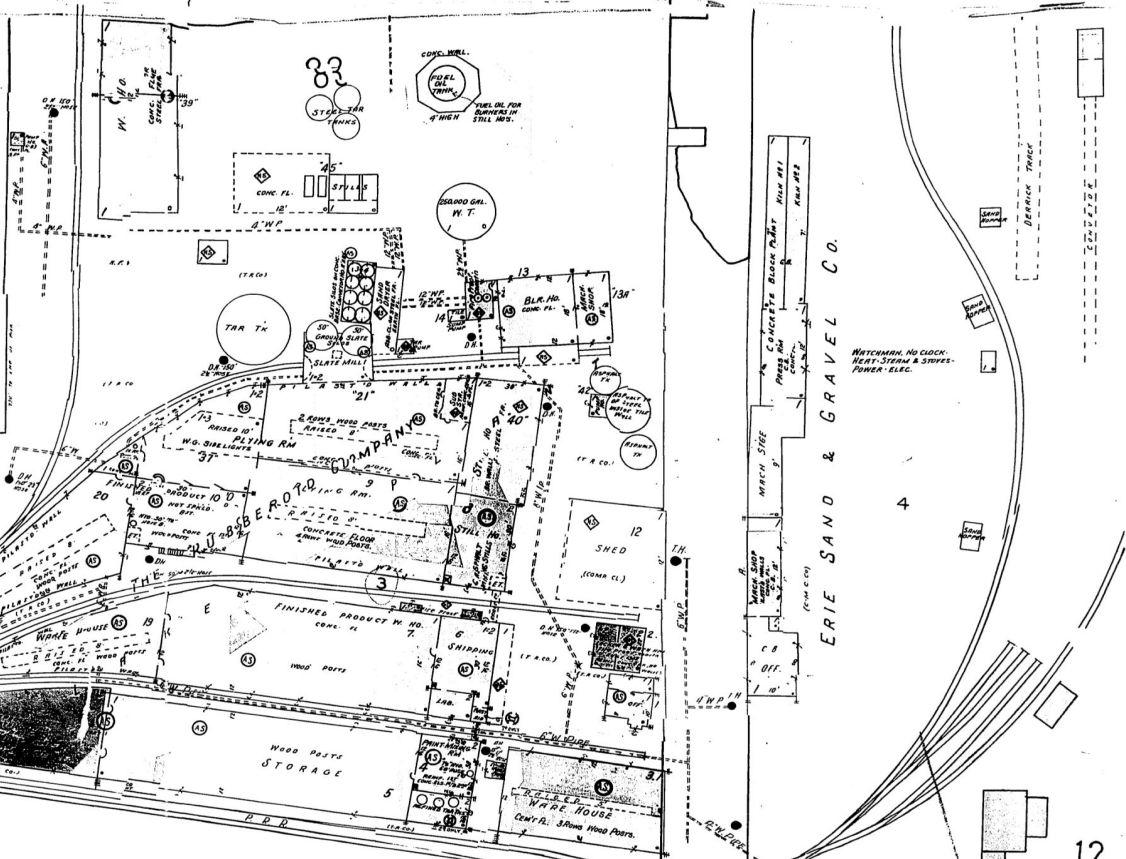
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Presque Isle Bay

THE RUBBEROID CO. - LAKE PLANT
MAP OF BLDG & ROAD PAPERS
S. I. A. RISK

MECHANICAL WORK, PLUMB & ELECT. - SEE PLAN
ARCHITECTURAL WORK, STAIRS, ELEV. - SEE PLAN
PAVING, DRIVEWAYS, DRIVEWAYS, DRIVEWAYS, DRIVEWAYS
WATER MAINS, SEWER MAINS, TRUNK & BRANCH
ELECTRICAL SYSTEMS, LIGHTS, ETC. - SEE PLAN



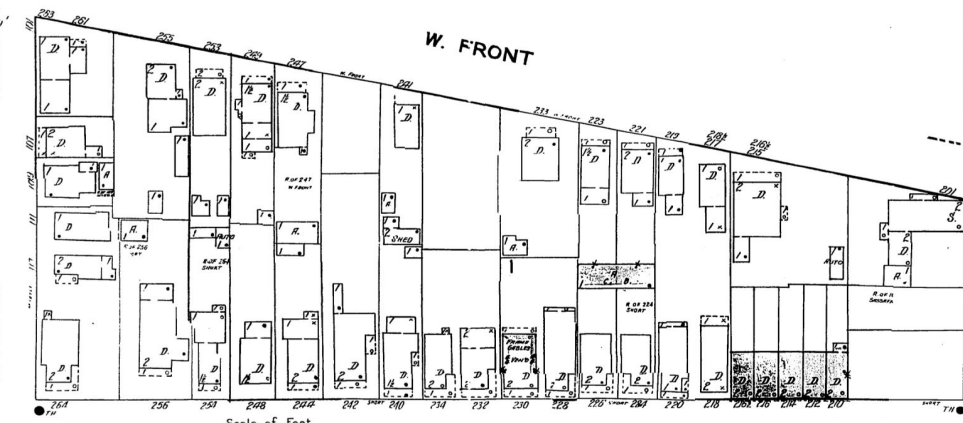
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Scale of Feet.

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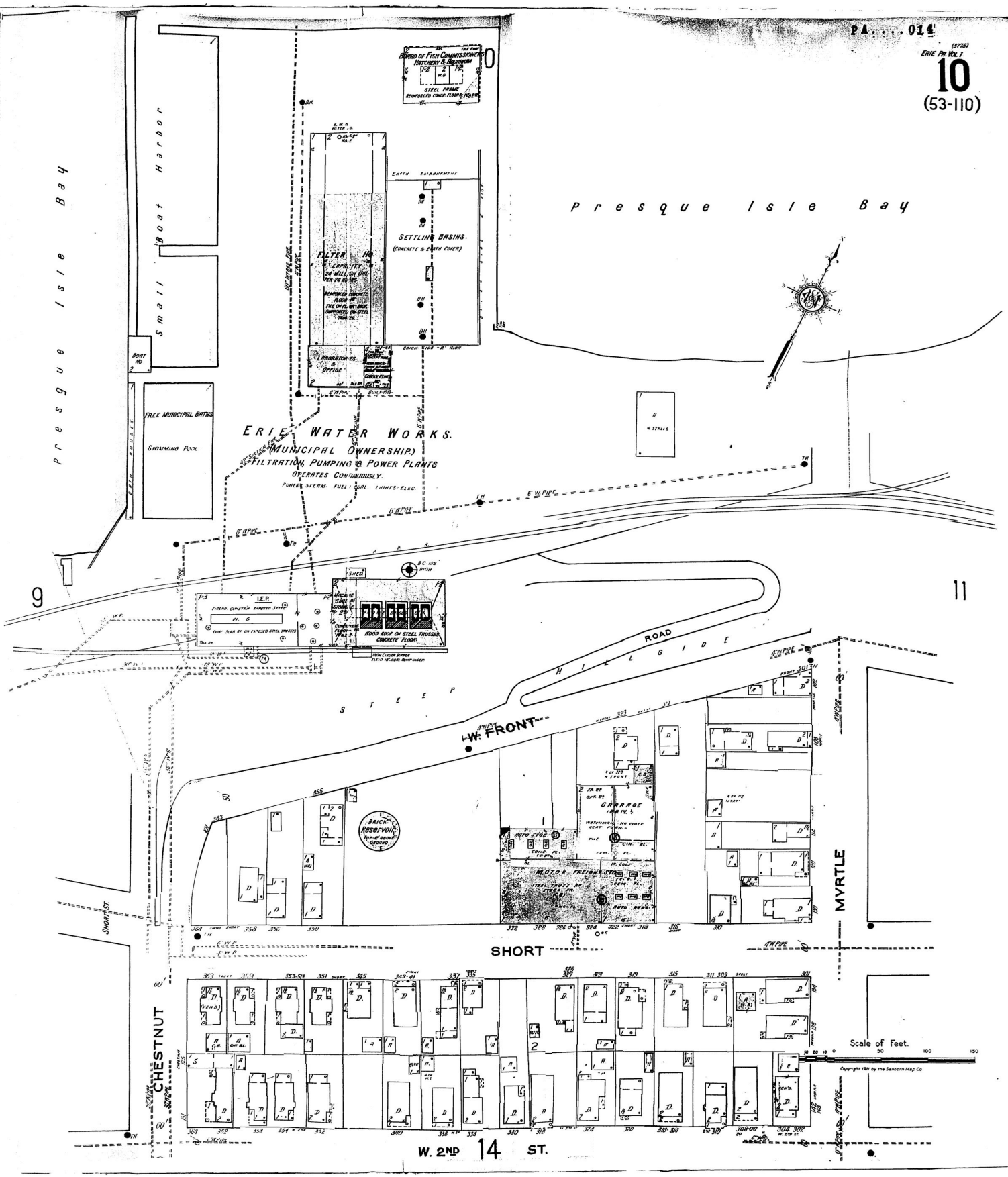
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16

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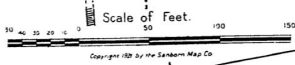
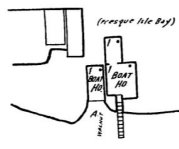


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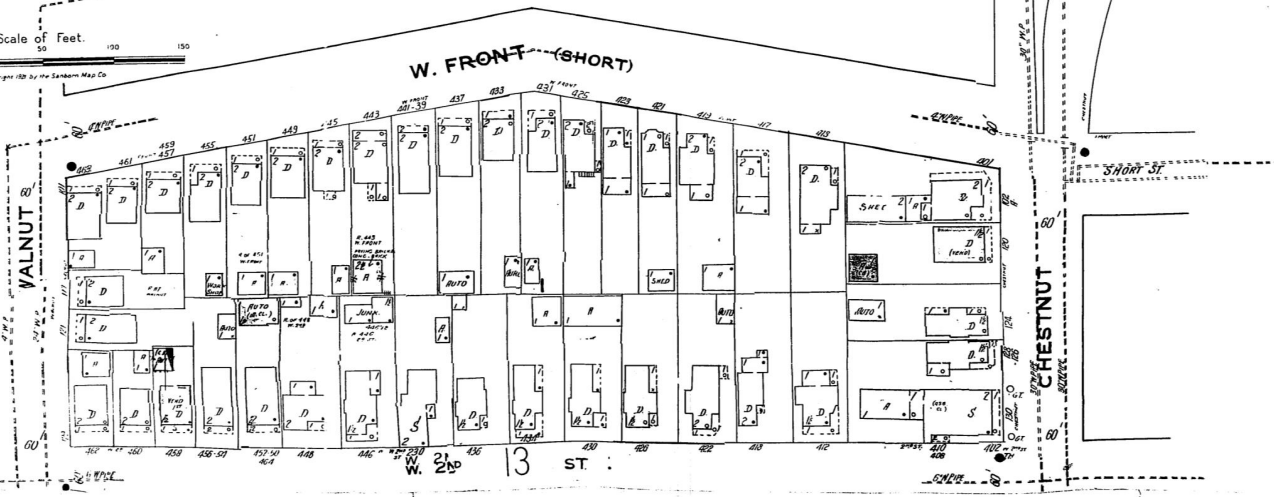


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Presque Isle Bay

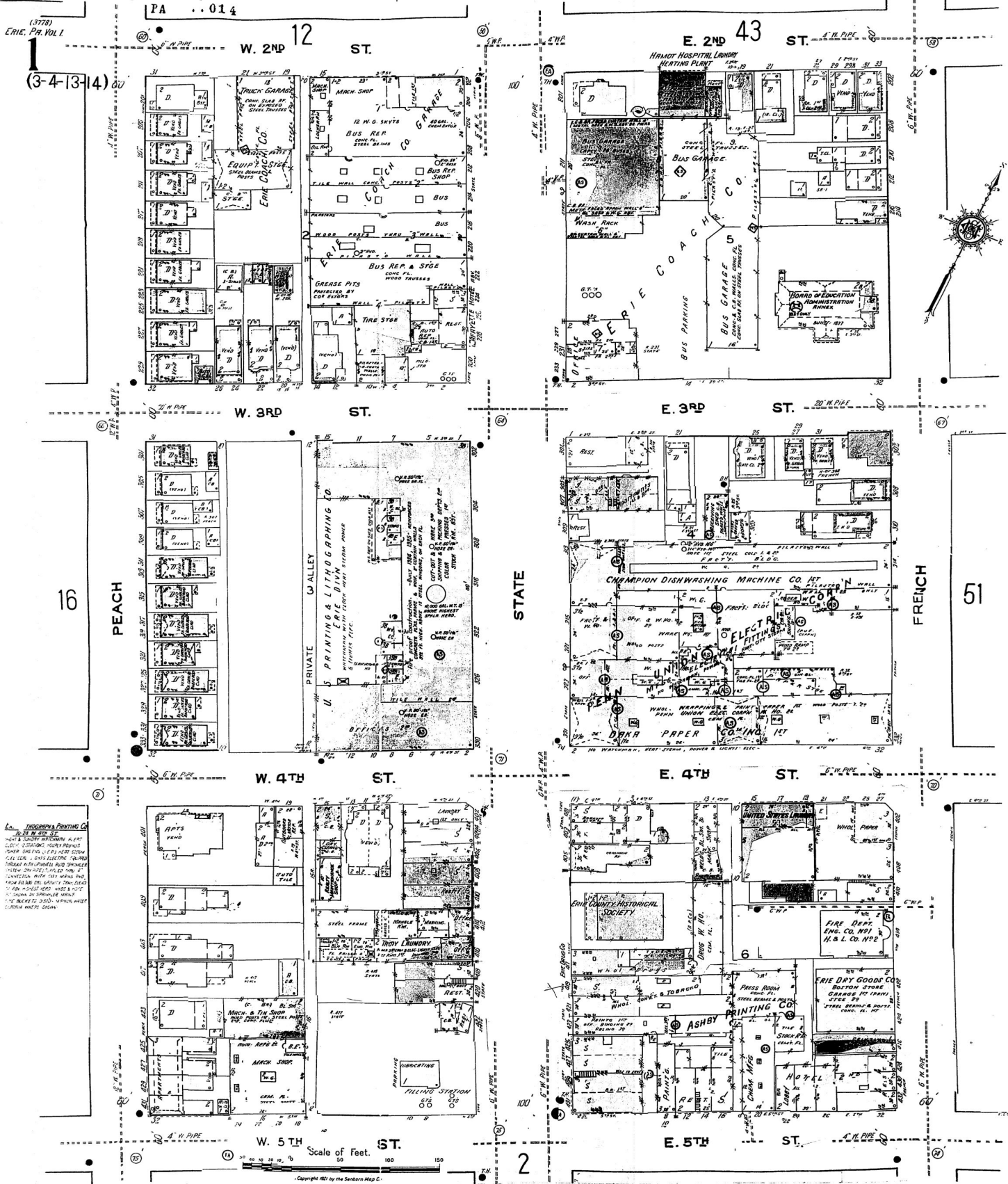


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Sheet 1
1950

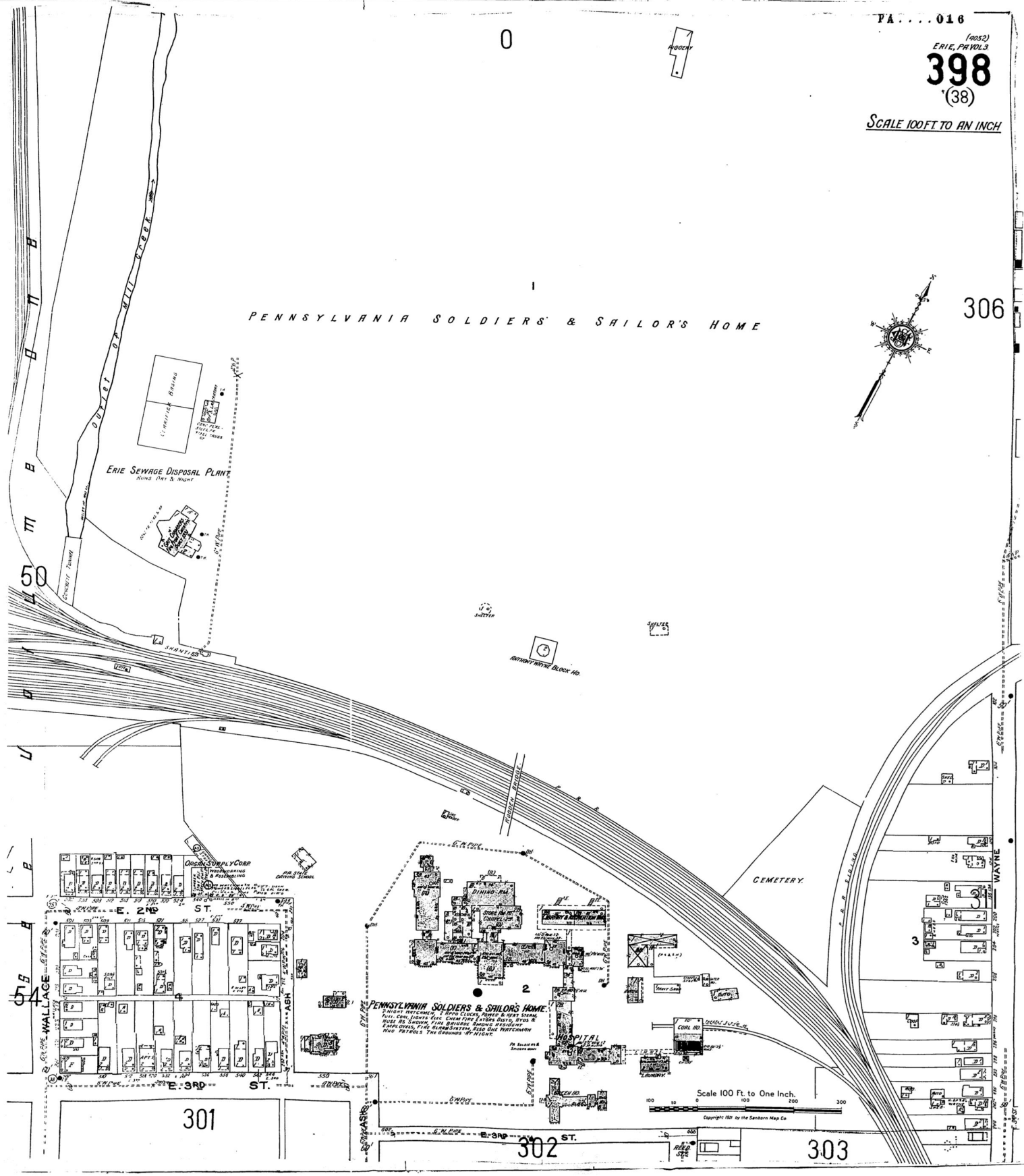
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306



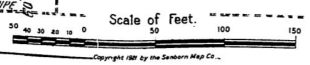
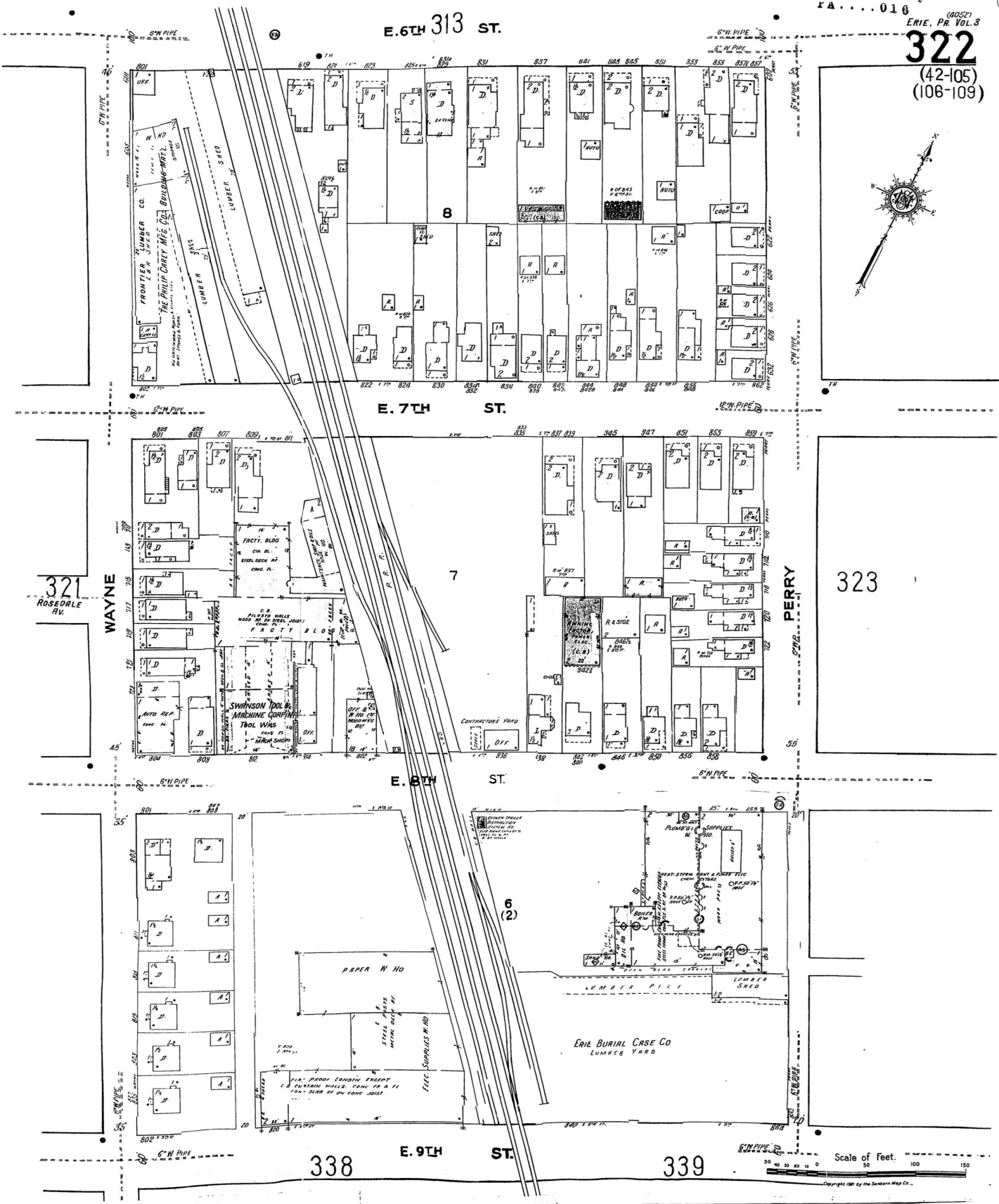
PENNSYLVANIA SOLDIERS & SAILORS HOME



PENNSYLVANIA SOLDIERS & SAILORS HOME
2 NIGHT WATCHMEN, 2 FIRE CLERKS, POWER & HEAT STEN.
TWO COOKS, ISSUES CLERK, CLEANER, FIRE SHERIFF, 1000 LB
POST, 100 SMOKE, FIRE SIGNALS, RESIDENT
SAND DRESS, FIRE HAZARDOUS, 1000 LB WATCHMEN
TWO PATROLS THE GROUNDS AT NIGHT

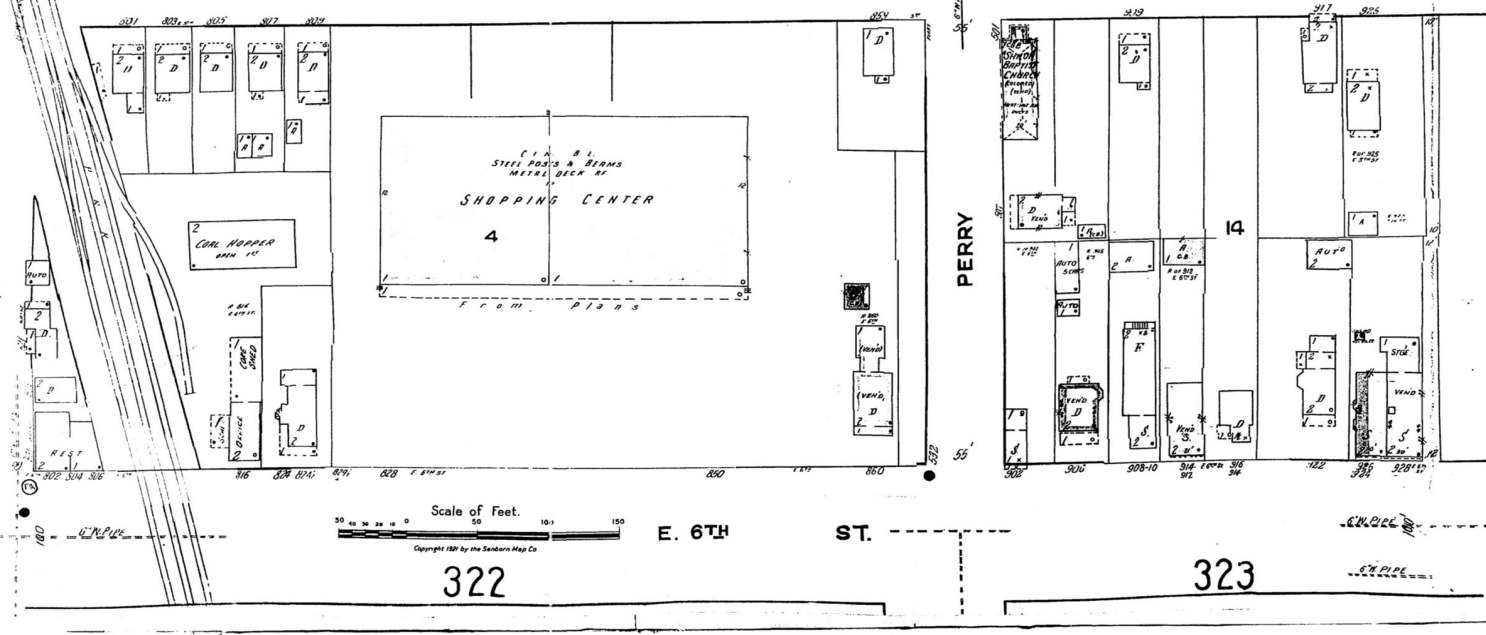
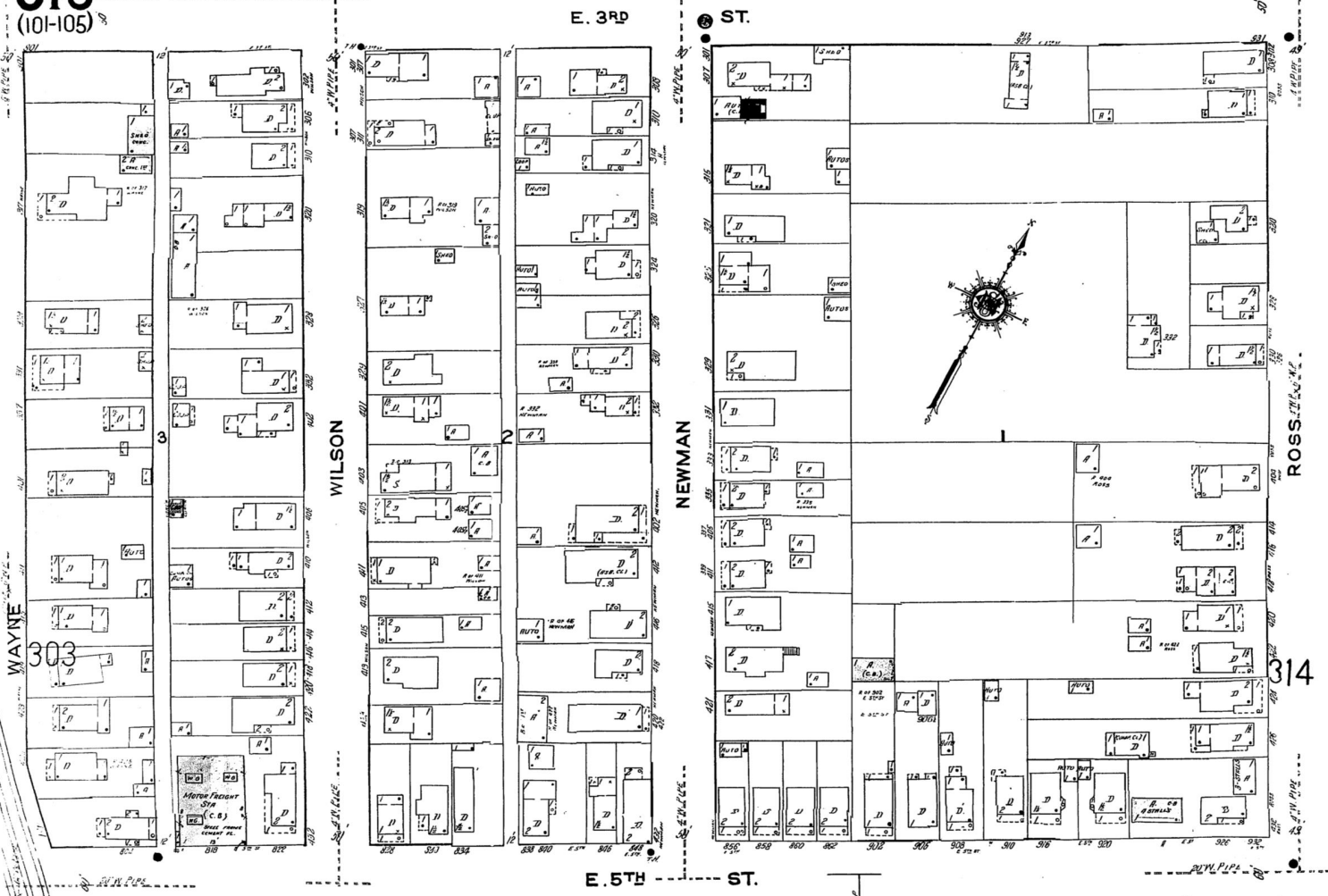
Scale 100 Ft to One Inch.
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305

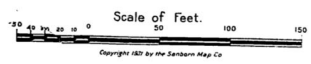
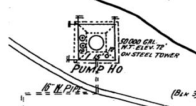


L a k e E r i e

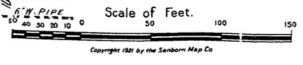
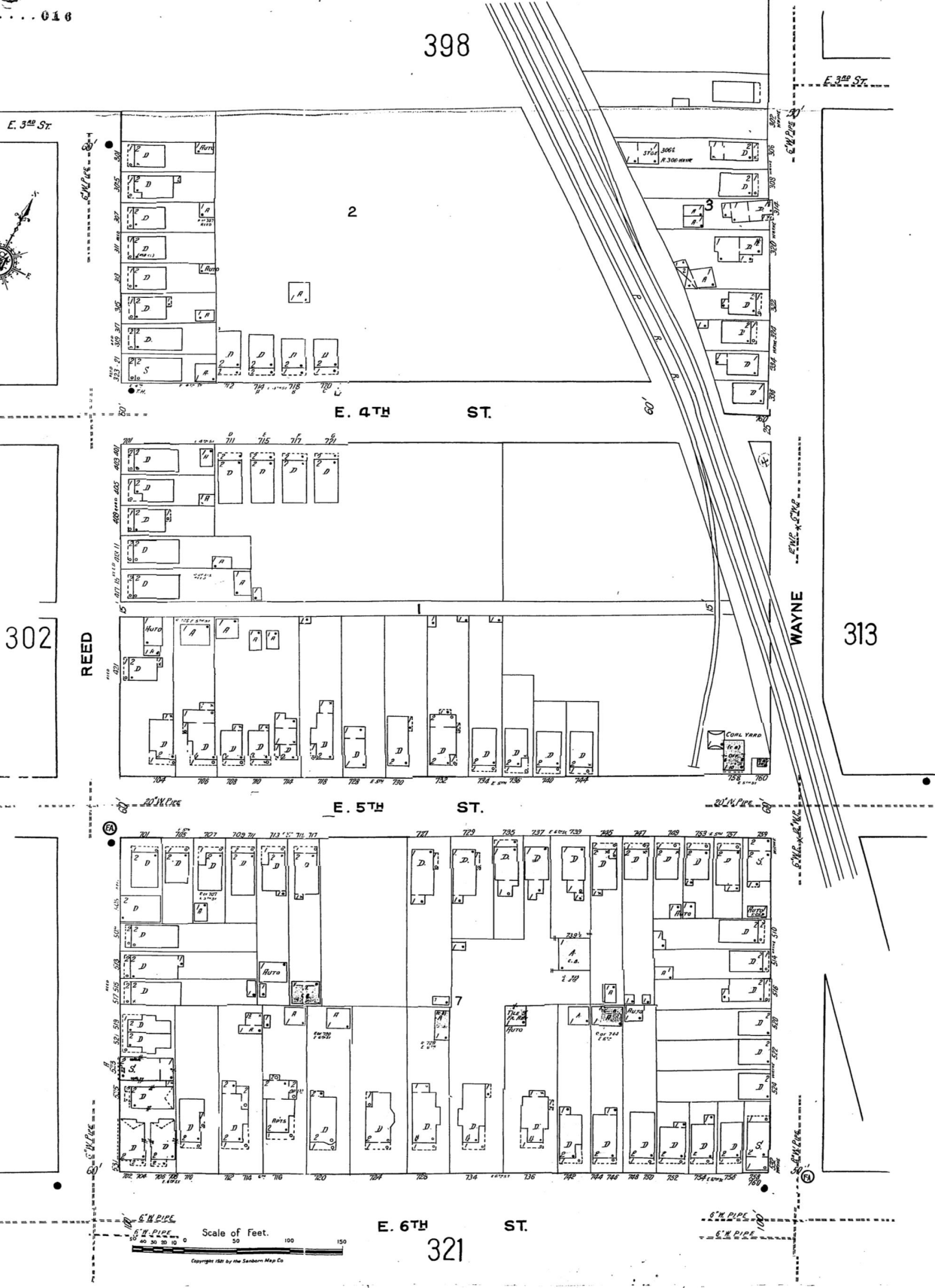
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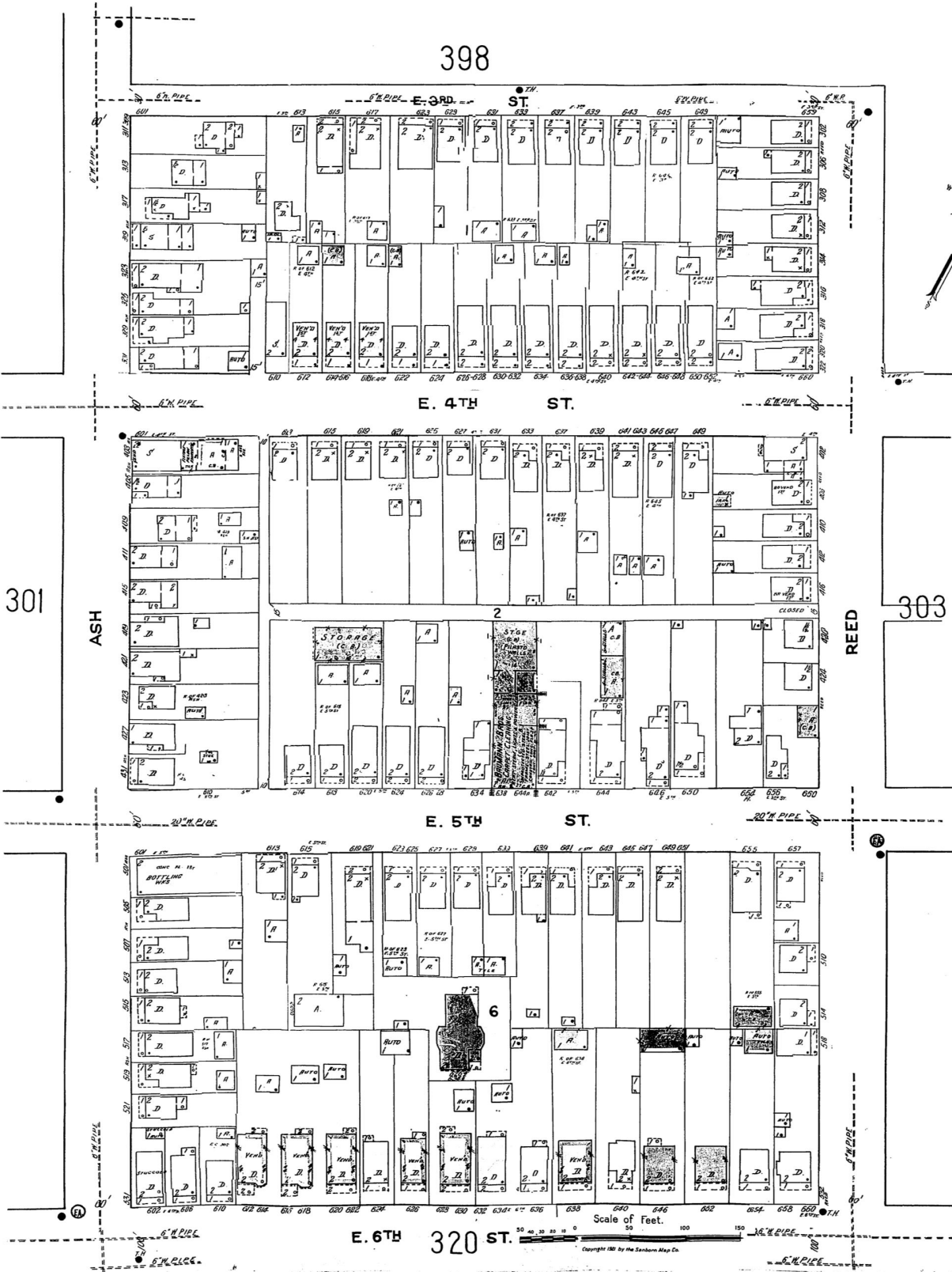
See Sheets 306, 307, 310 & 312.

3



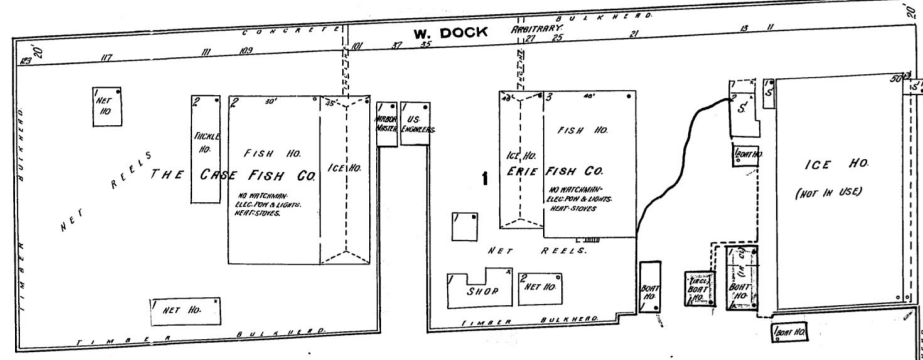
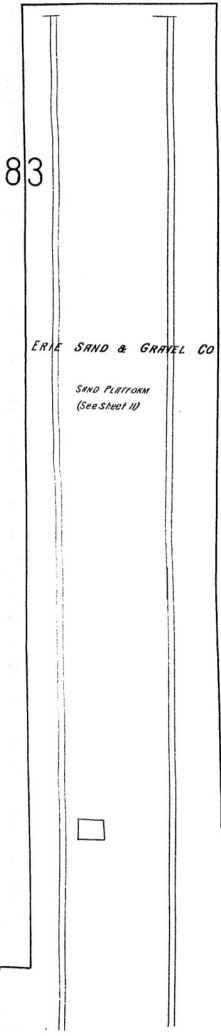
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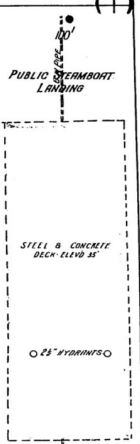
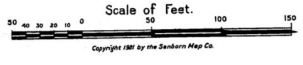
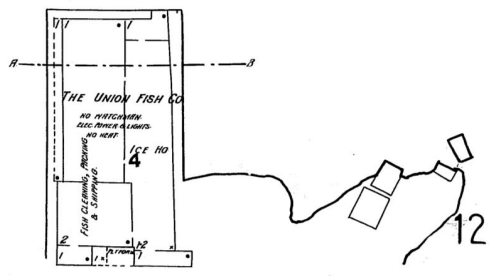




P r e s q u e I s l e B a y



W e s t C a n a l B a s i n .



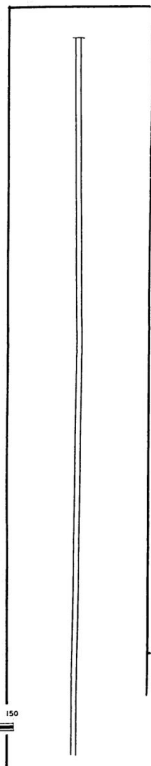
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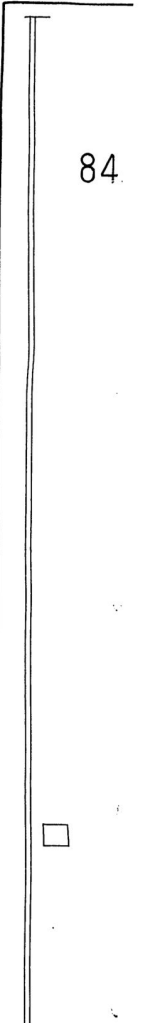
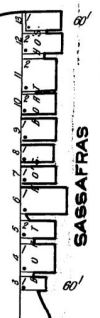
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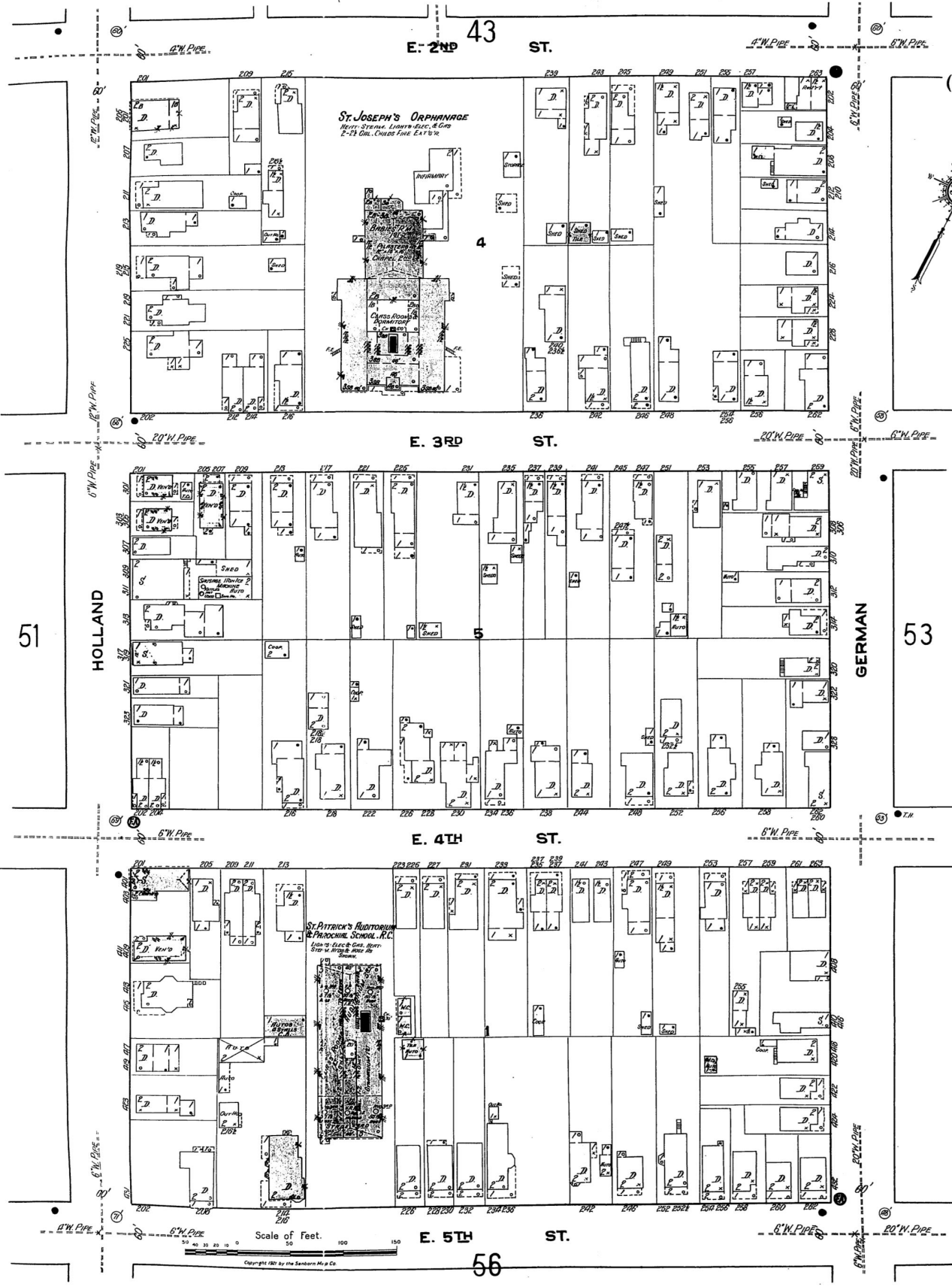
P r e s q u e l i s l e B a y



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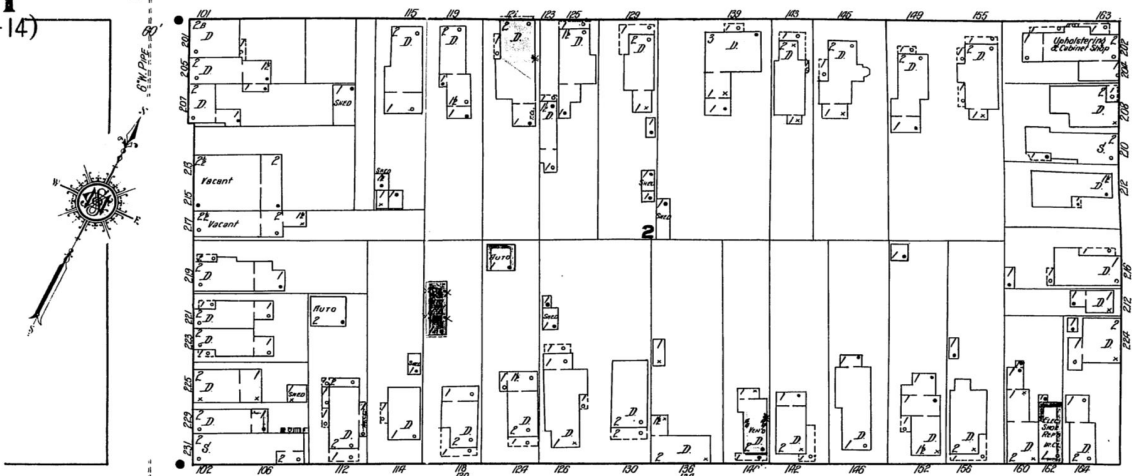
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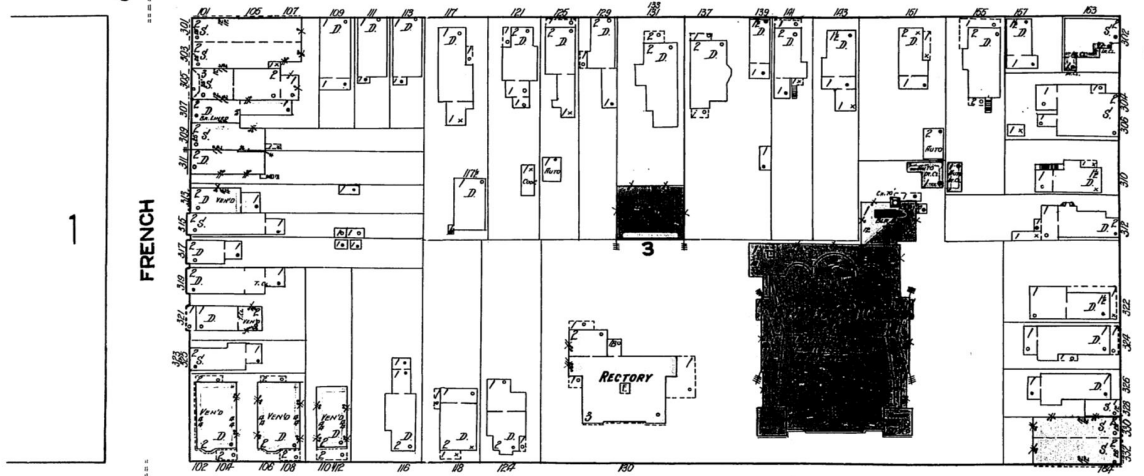
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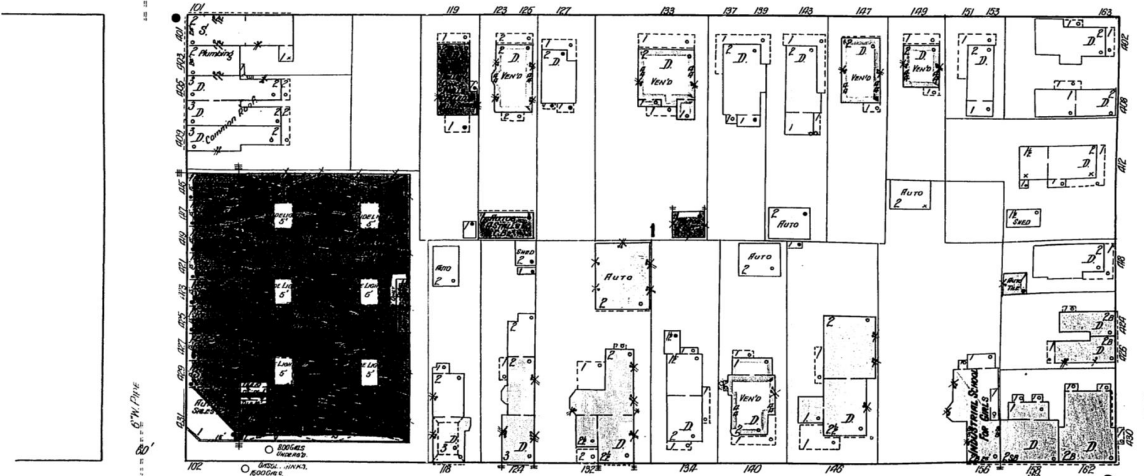
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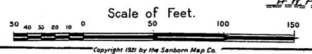
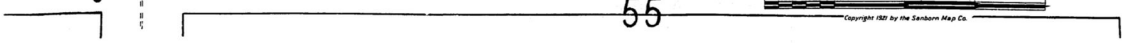
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E. 4TH ST.



E. 5TH ST.



Scale of Feet.

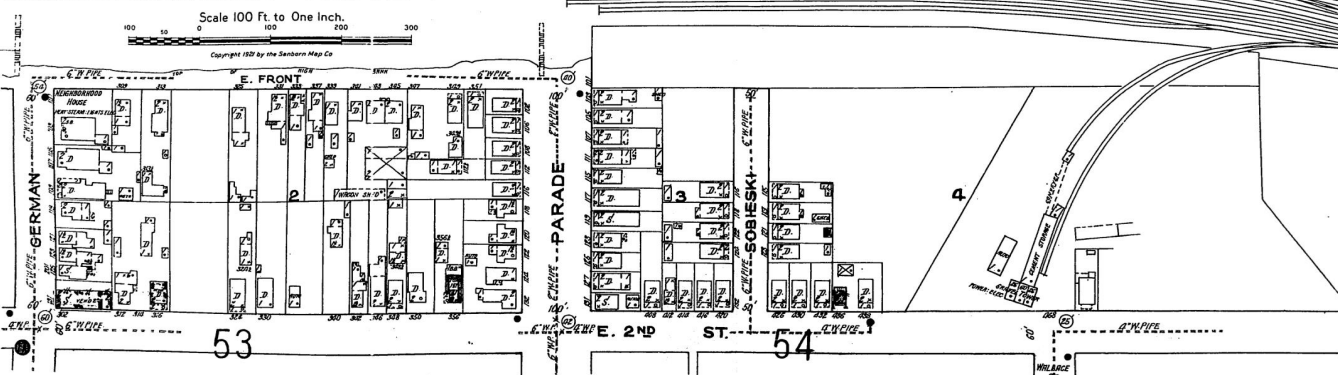
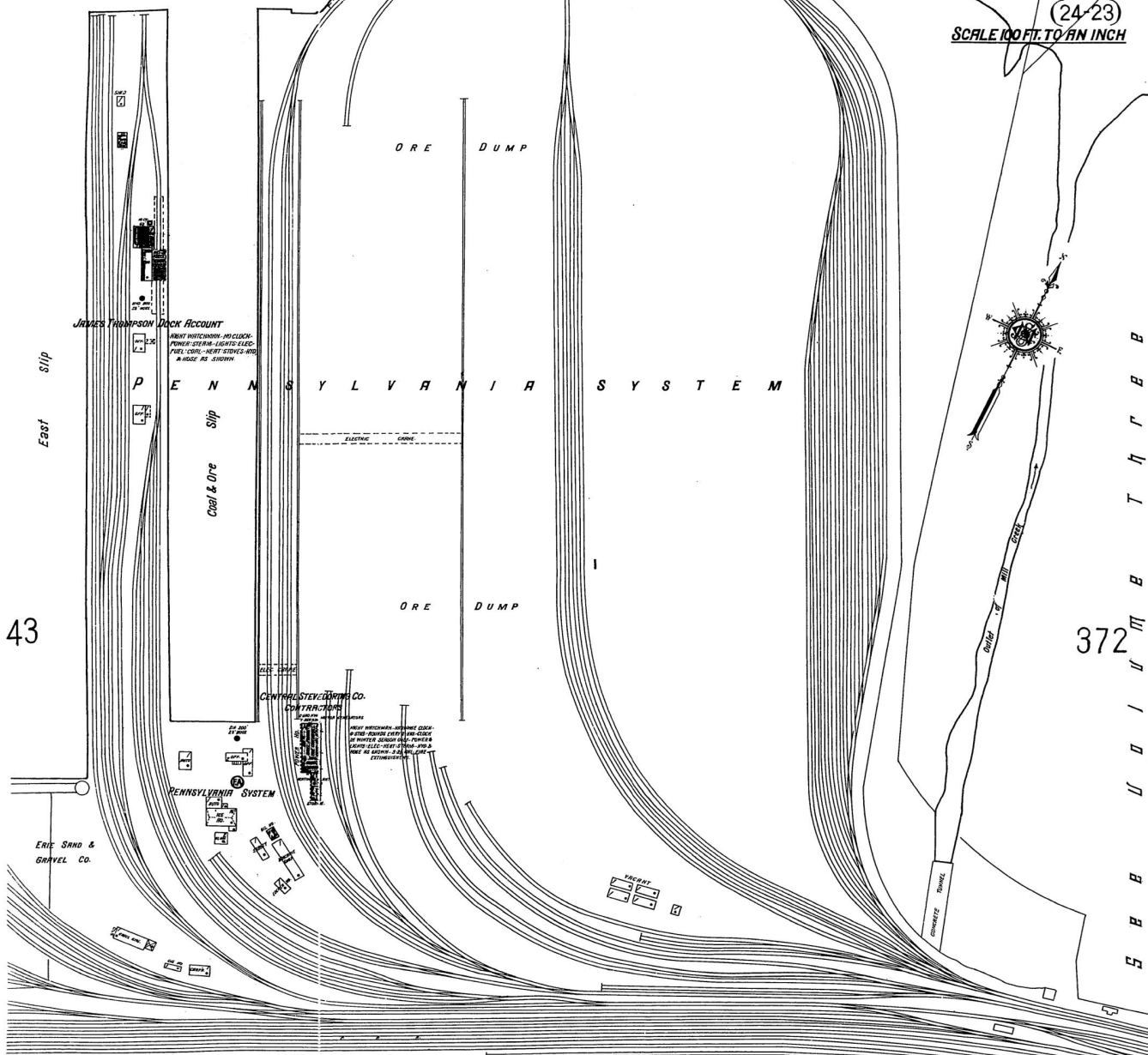
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presque Isle Bay

(3770)
ERIE, PA., VOL. I
50
(24-23)

SCALE 100 FT. TO AN INCH



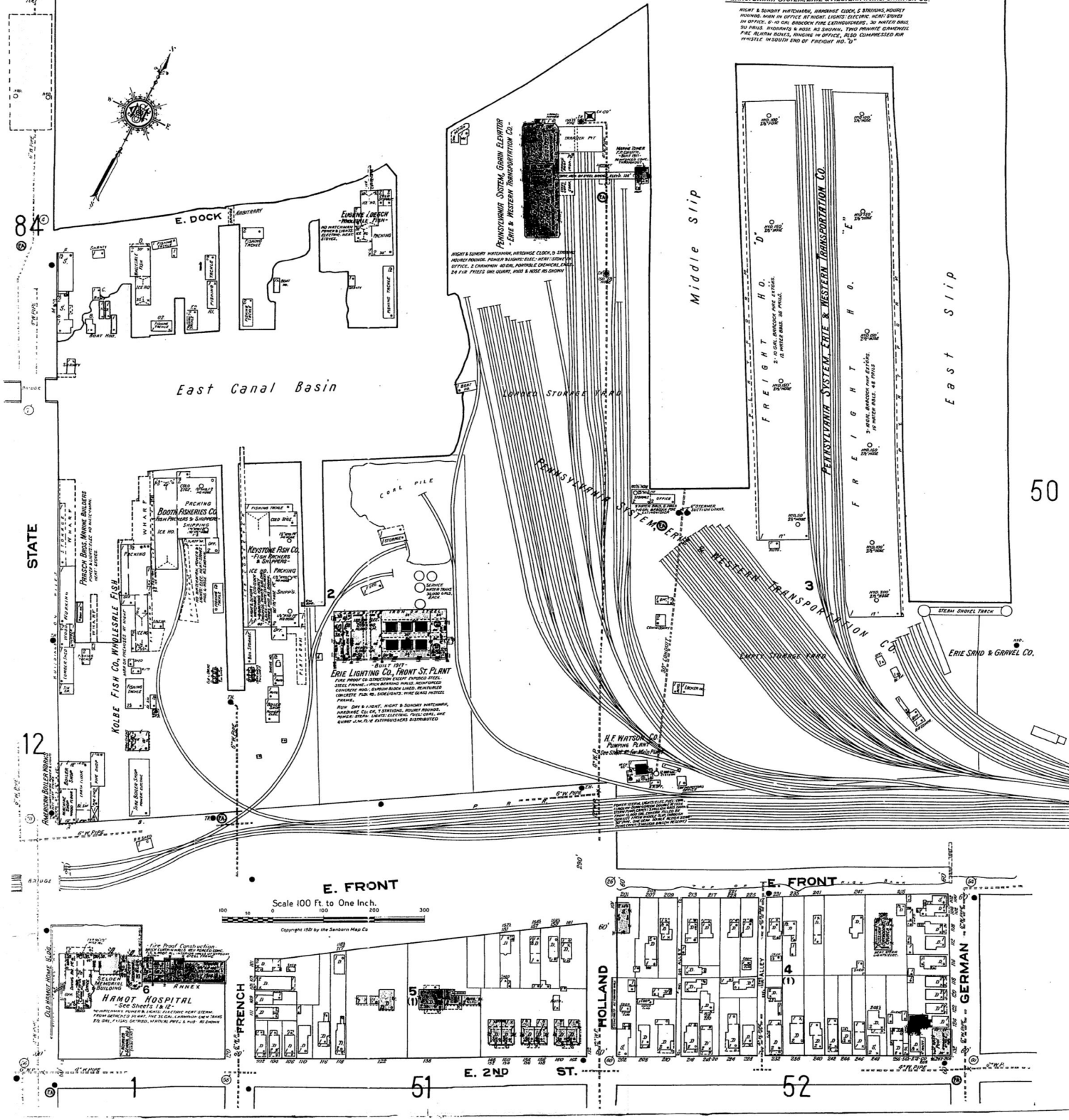
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Presque Isle Bay

SCALE 100 FT. TO AN INCH

PENNSYLVANIA SYSTEM, ERIE & WESTERN TRANSPORTATION CO.

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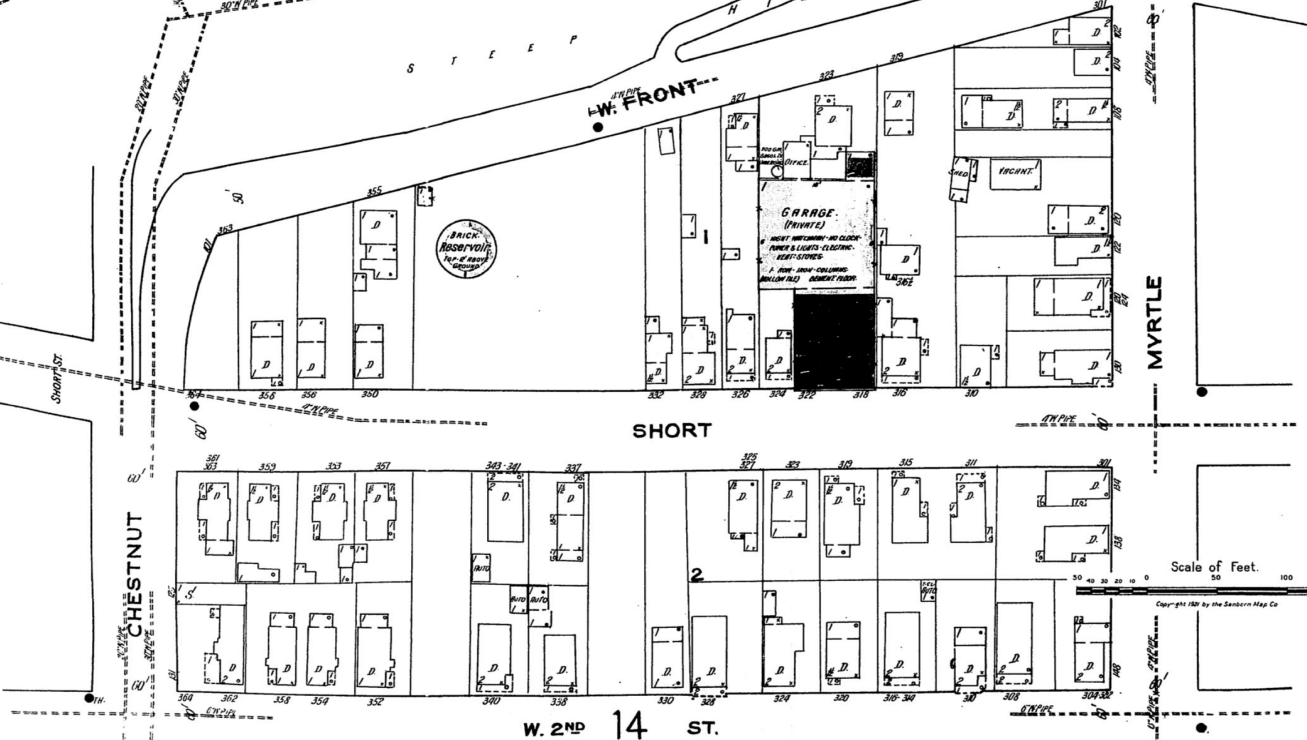
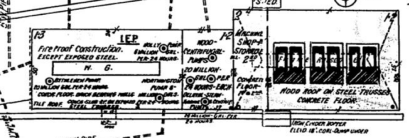
Presque Isle Bay

Small Boat Harbor

Presque Isle Bay



ERIE WATER WORKS.
(MUNICIPAL OWNERSHIP)
FILTRATION, PUMPING & POWER PLANTS
OPERATES CONTINUOUSLY.
POWER: STEAM, FUEL OIL, LIGHTS: ELEC.



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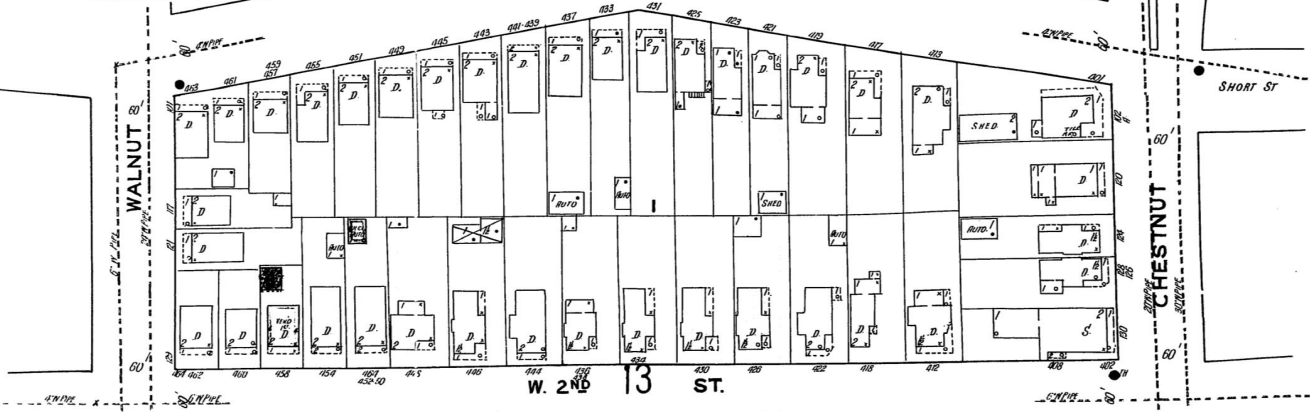
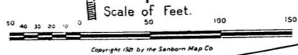
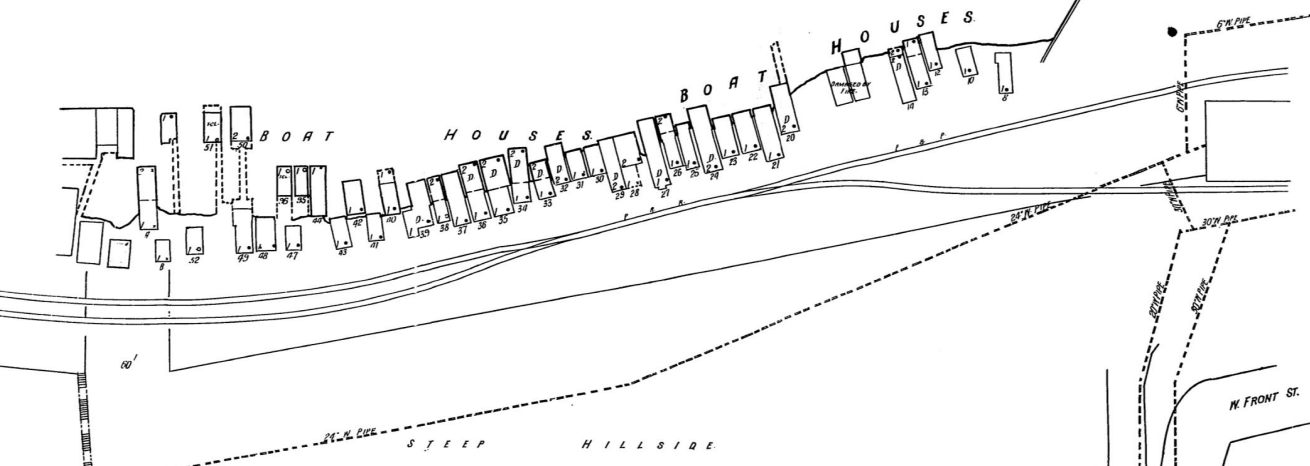


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Presque Isle Bay

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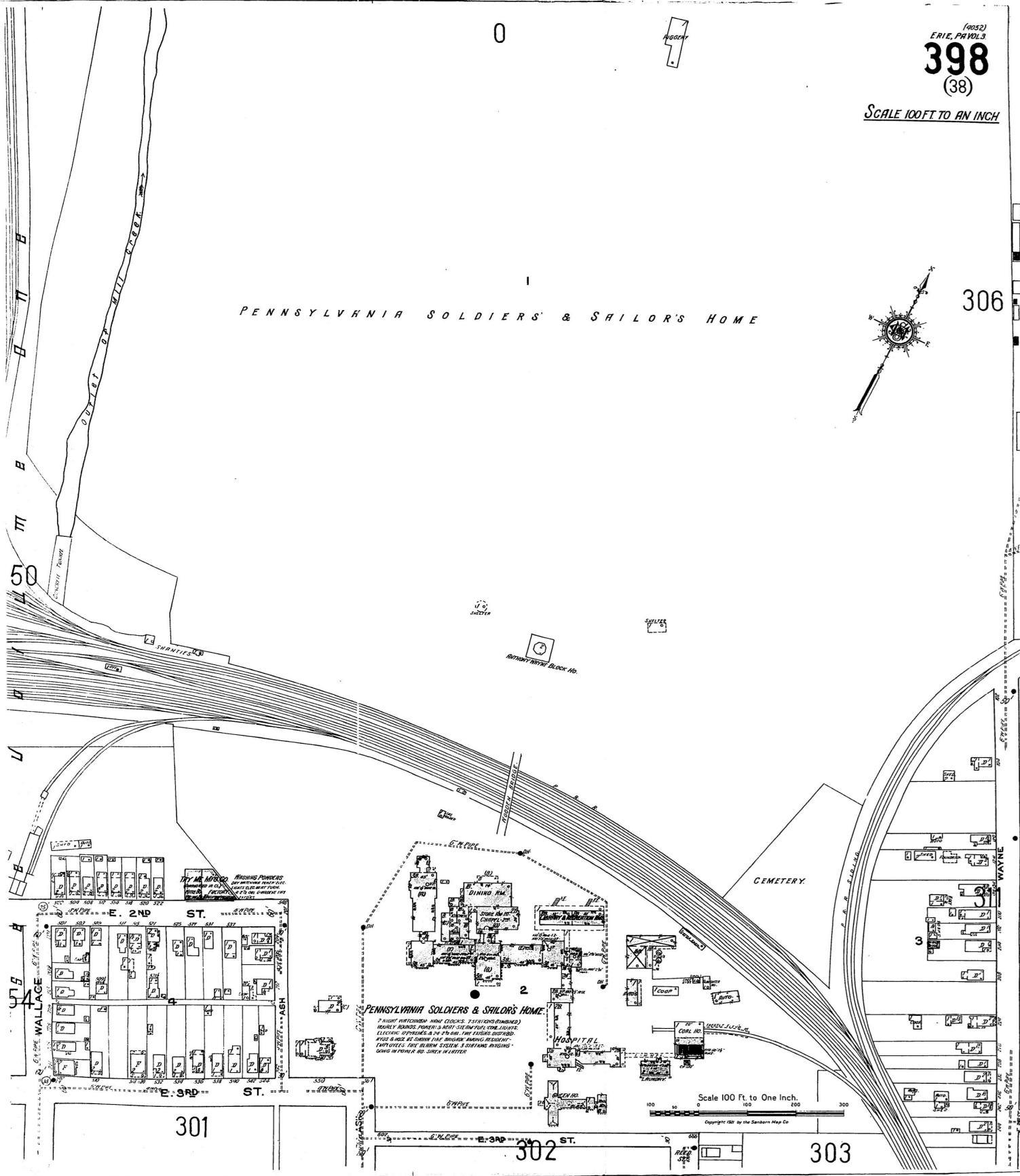
SCALE 100 FT TO AN INCH

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306

PENNSYLVANIA SOLDIERS' & SAILORS' HOME



301

302

303

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E. 6TH 313 ST.

E. 7TH ST.

E. 8TH ST.

E. 9TH ST.

WAYNE

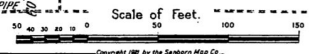
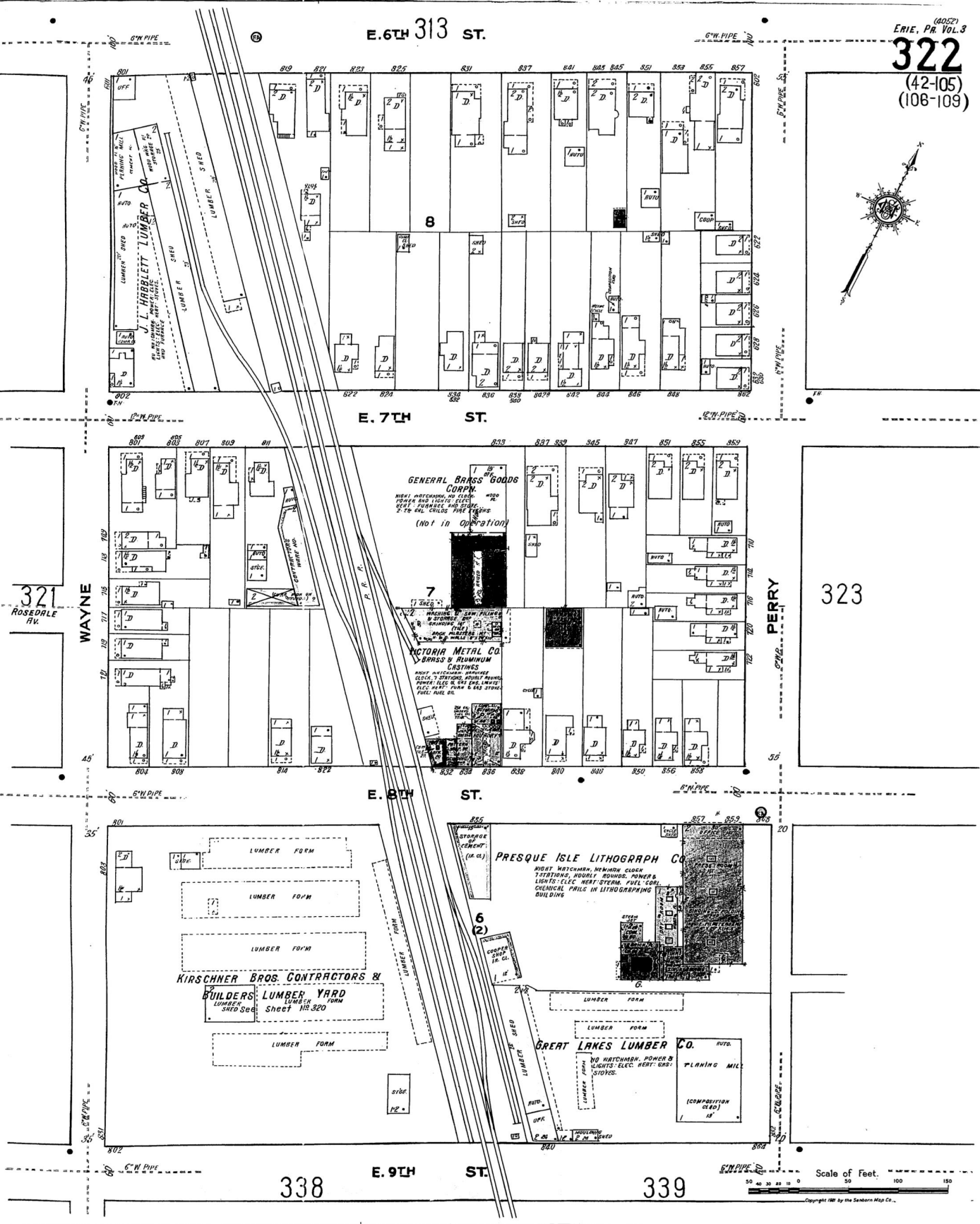
PERRY

321
ROSDALE
AV.

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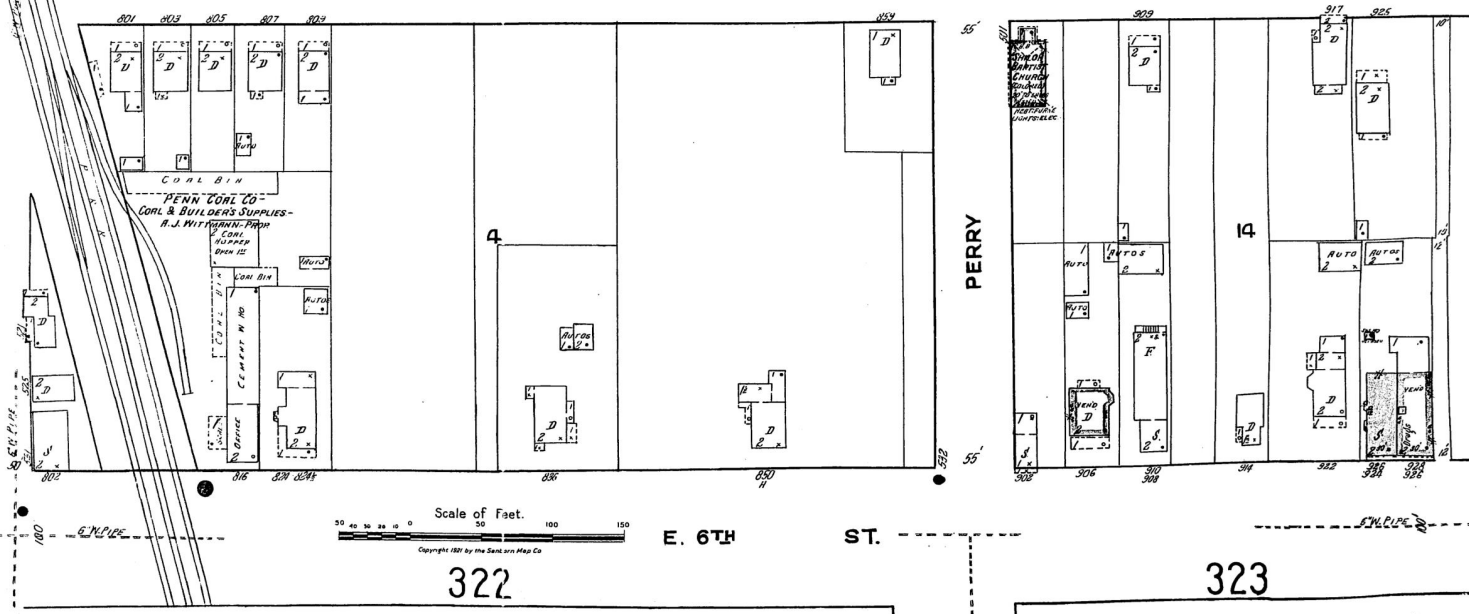
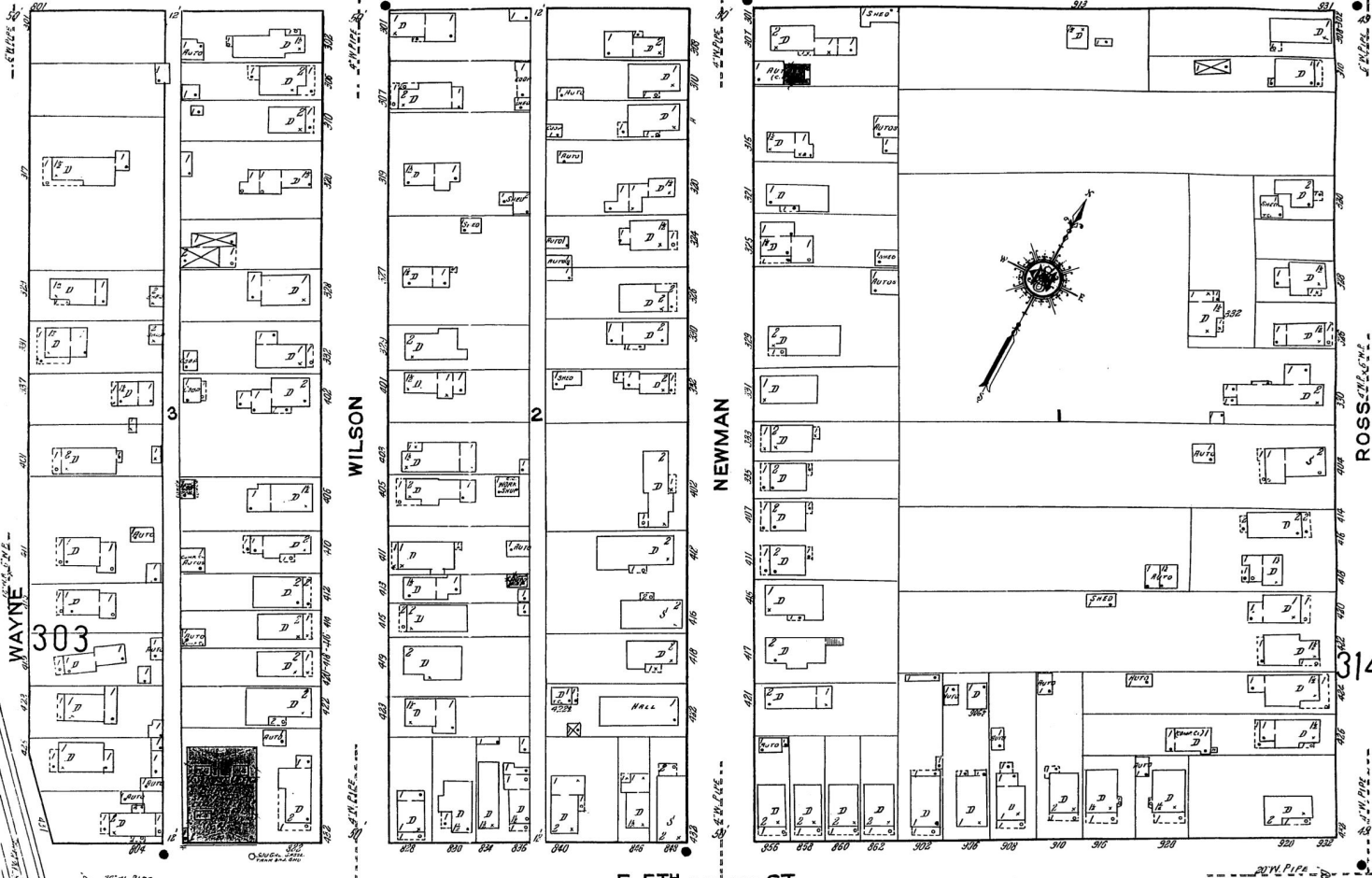
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313
(101-105)

311

E. 3RD ST.

ST.



Sheet 313
1921

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(1921)
Eng. Pr. Vol. 3
305



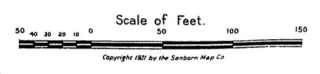
L a k e E r i e

PICKANDS MATHER & CO. PERRY IRON CO. FURNACE

307

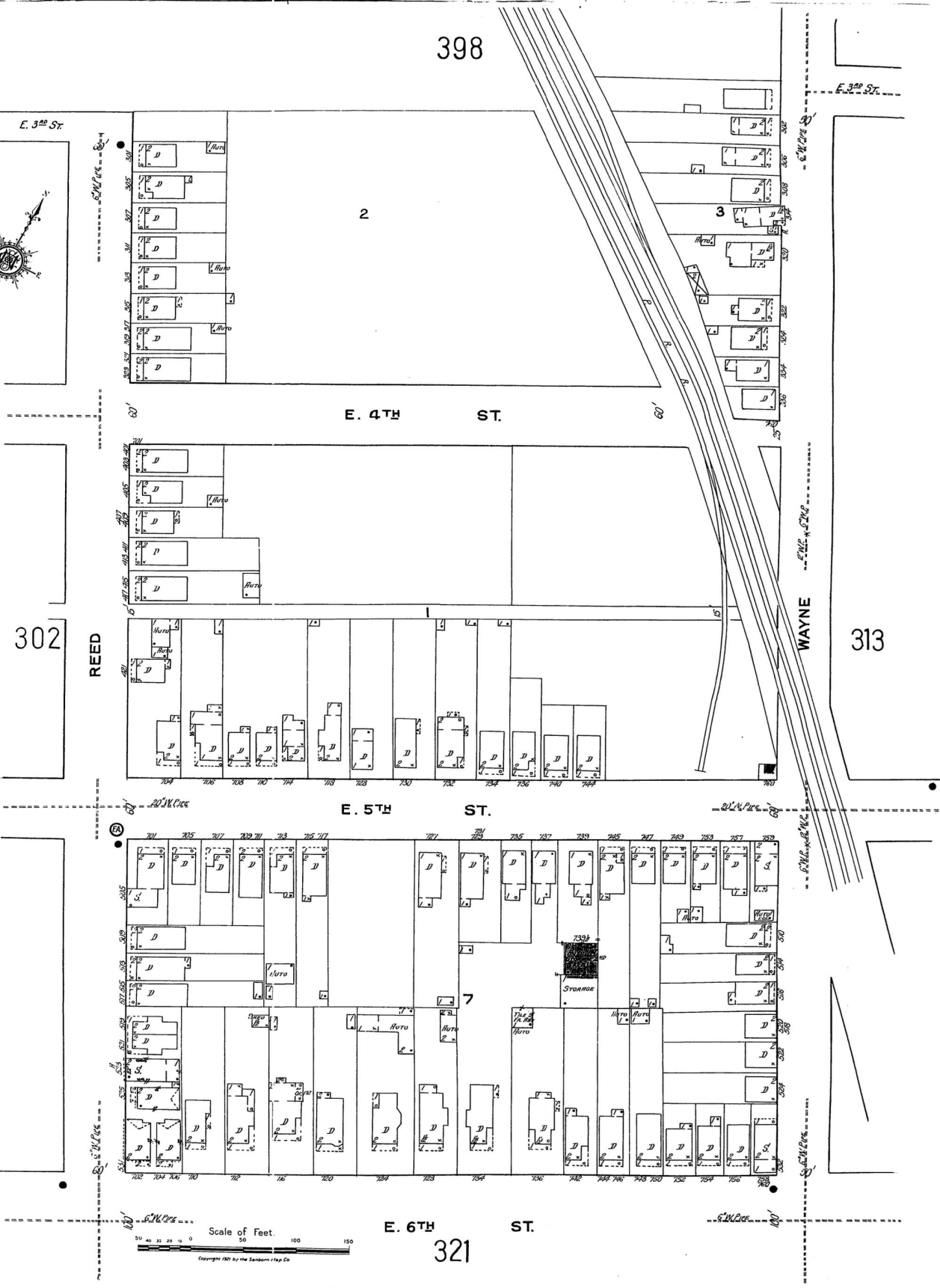
See Sheets 306, 307, 310 & 312.

3

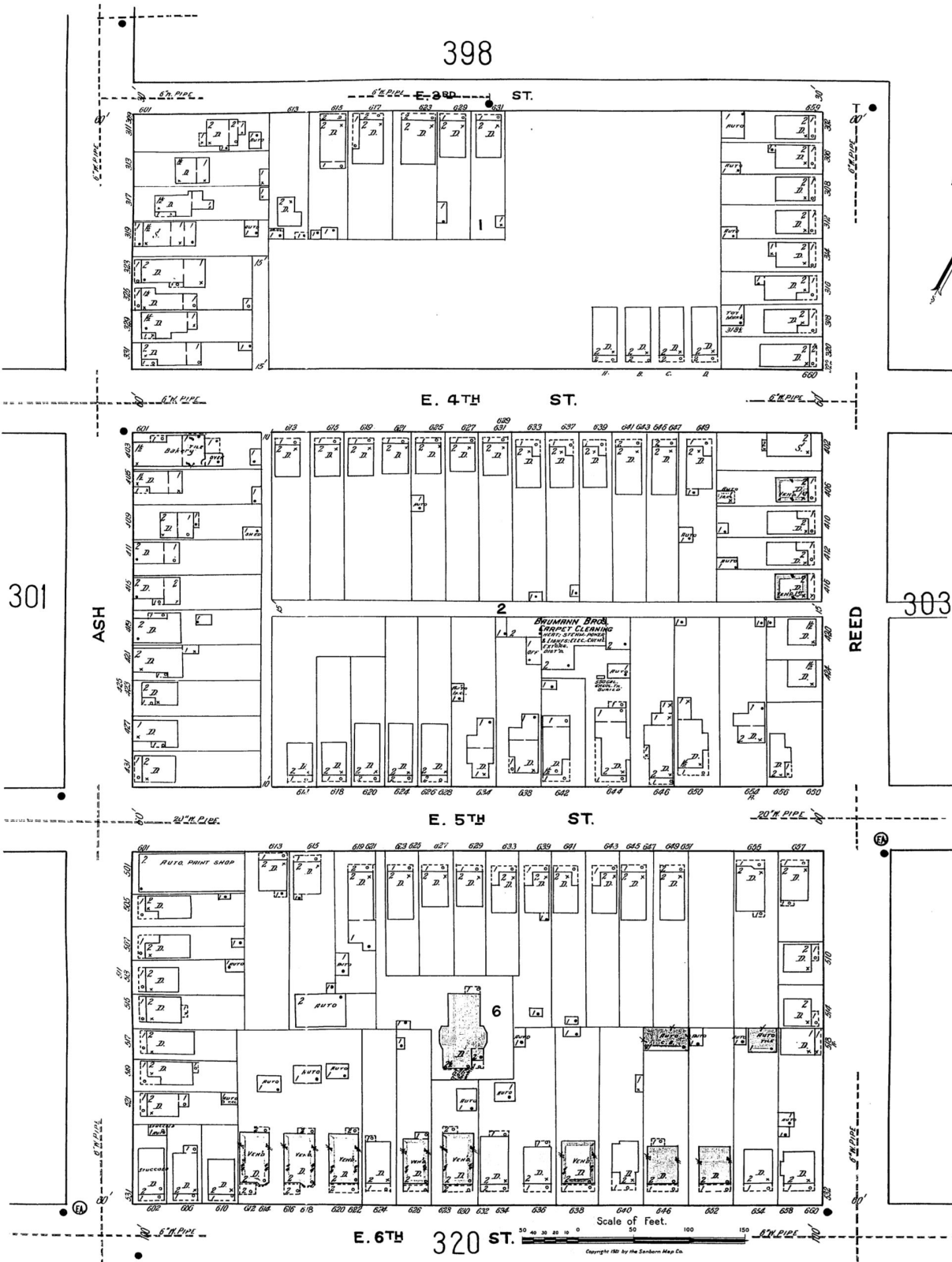


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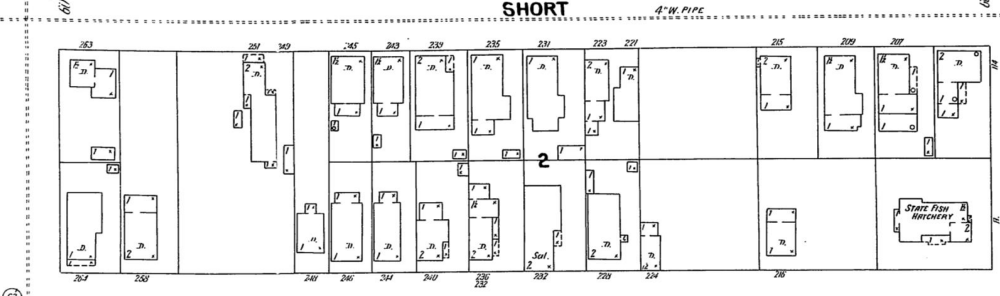
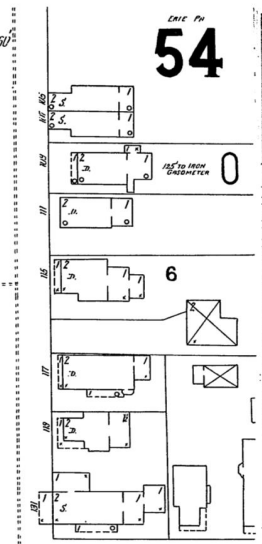
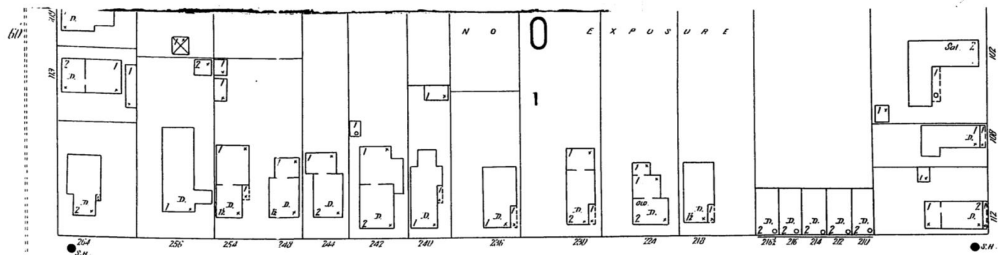
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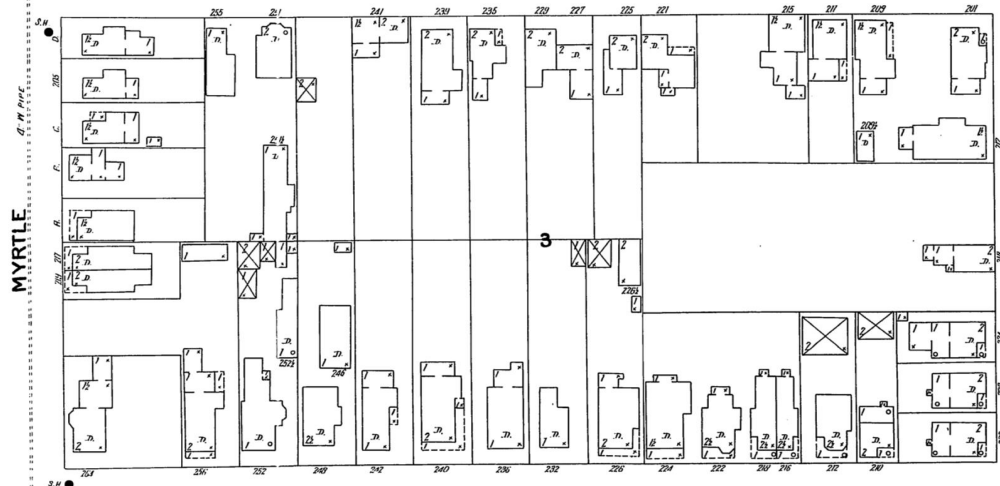
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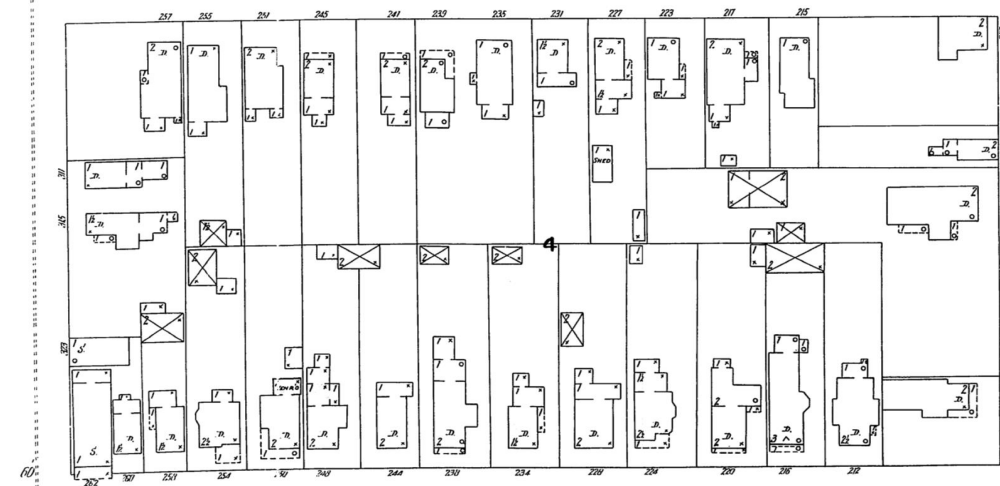
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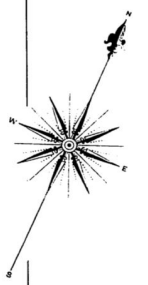
W. 2ND ST. 4\"/>



W. 3RD ST. 20\"/>



W. 4TH ST. 6\"/>



54

53

3



5

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53

FRONT

SHORT

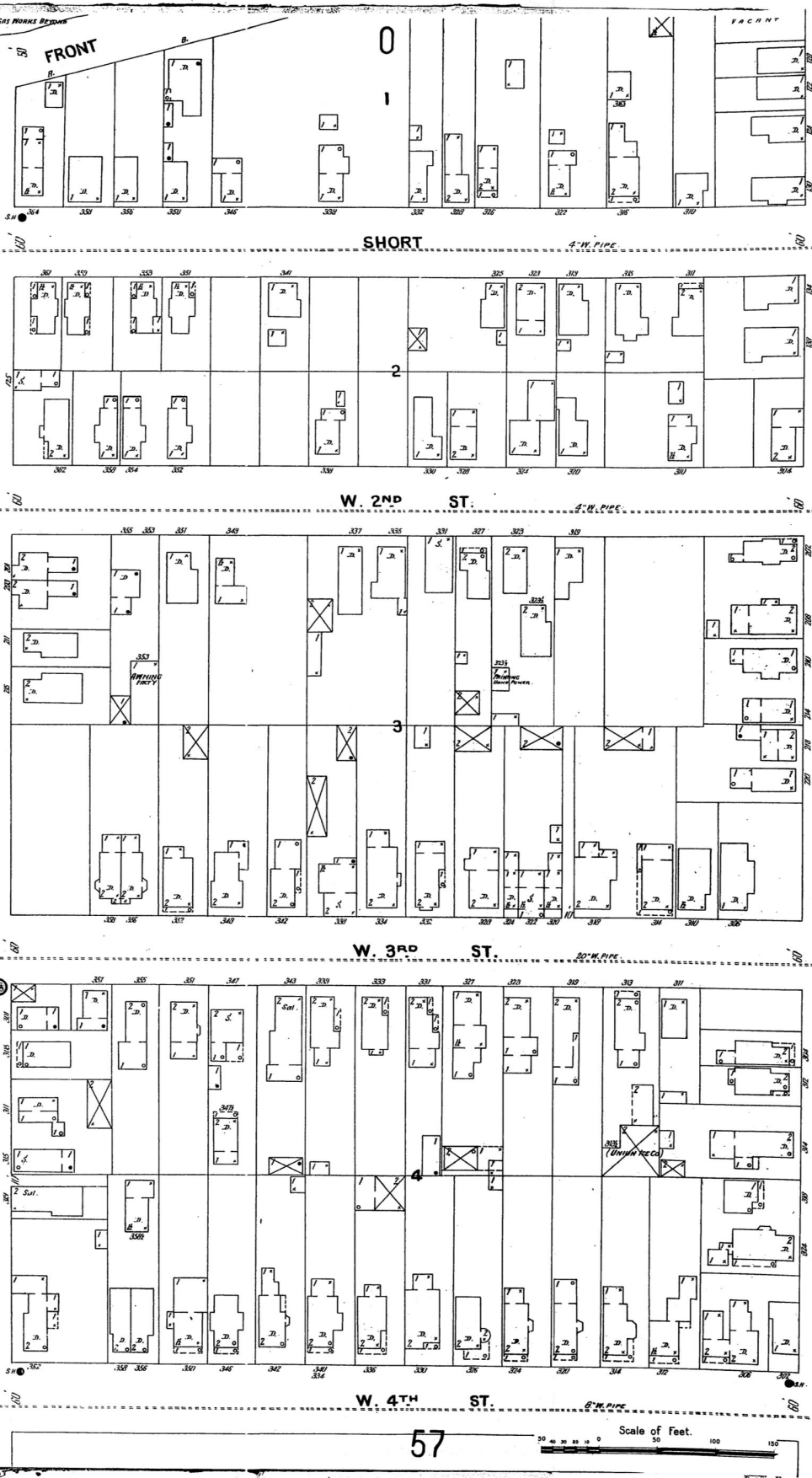
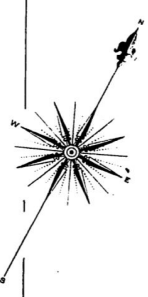
W. 2ND ST.

W. 3RD ST.

W. 4TH ST.

57

Scale of Feet.



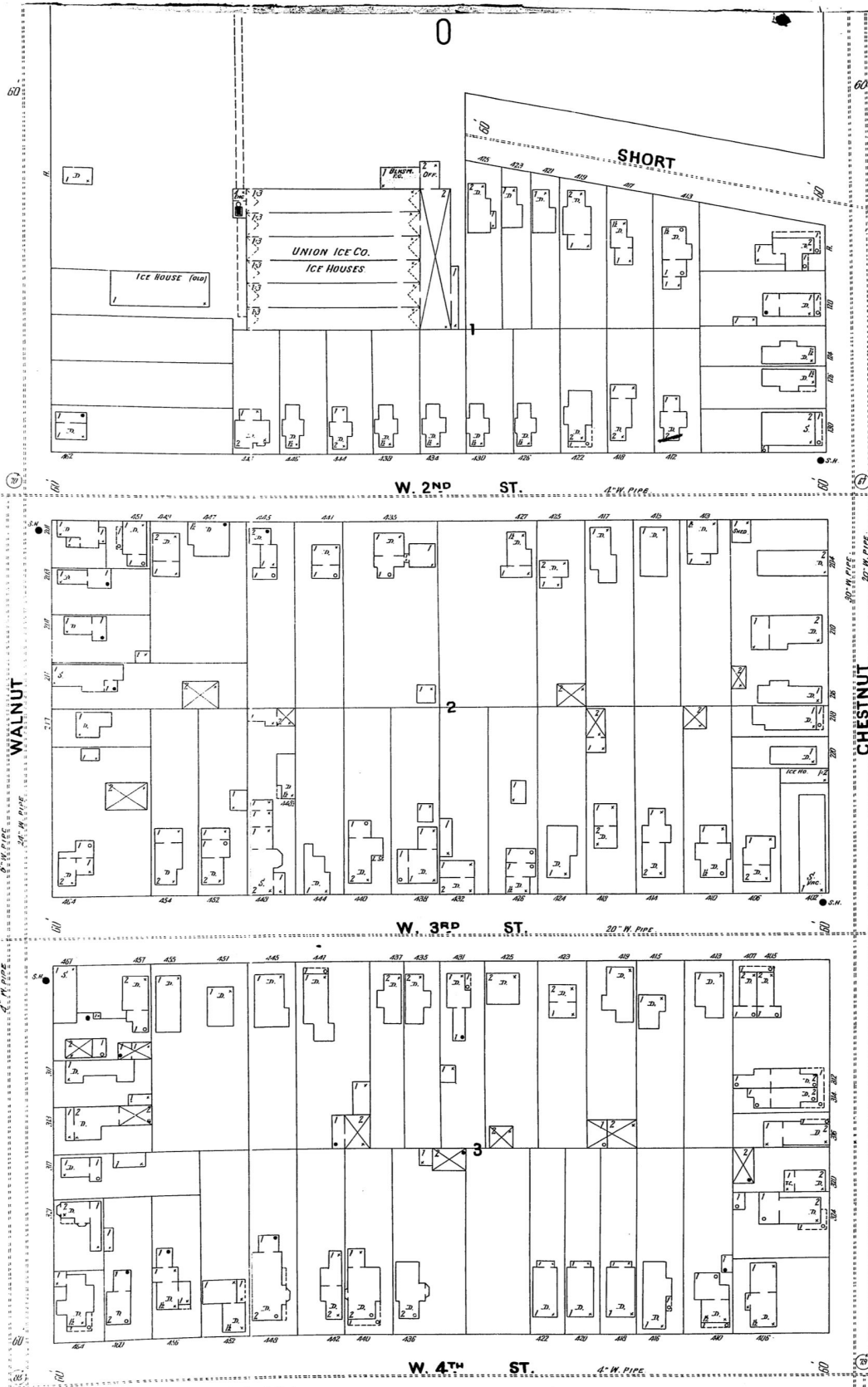
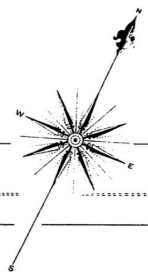
52

54

53

SHORT ST.

53



Scale of Feet.
0 50 100 150

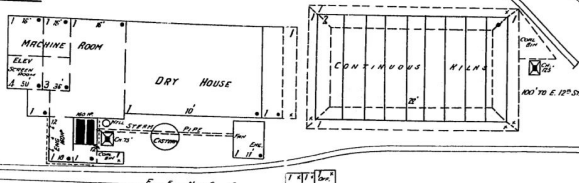
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J. M. DUNN BRICK WORKS

H. C. DUNN Mgr

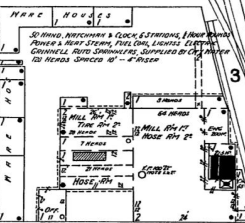
30 BRICKS PER HOUR ON 2000 HP MOTOR. POWER & HEAT STEAM, FUEL OIL, LIGHTS, ELECTRIC, CHIMNELS, ROOF, CEILING, SURFACES OF CHIMNELS, HEADS SPACED 18" - 2" APART.

Situated 2 Miles E. of City Hall



38

42

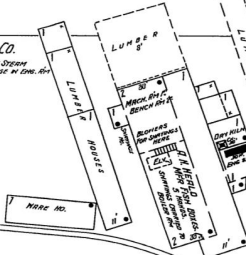


LAKE SHORE RUBBER CO.

44

AMERICAN MFG CO.

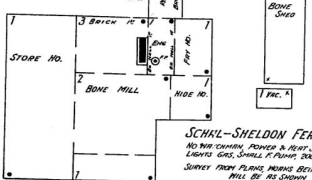
NO WIRE, NO PARTITION, HEAT STEAM, LIGHTS, FURNACE OIL, SHALL HOUSE IN BRICK



SCHUL-SHELDON FERTILIZER CO.

NO WIRE, PARTITION, HEAT STEAM, FUEL OIL, LIGHTS, SOIL, SHALL OF PLASTER, 200' OF 18" WIDE SURVEY FROM PLANS, MOBS BEING REVERSED WILL BE AS SHOWN

NO EXPOSURE ANY SIDE



50

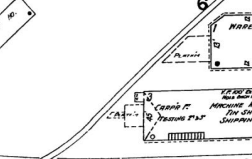
10

E. 9TH ST.

E. 8TH ST.

METRIC METAL CO. W/8 GAS METERS

300 BRICKS PER HOUR ON 2000 HP MOTOR. POWER & HEAT STEAM, FUEL OIL, LIGHTS, ELECTRIC, CHIMNELS, ROOF, CEILING, SURFACES OF CHIMNELS, HEADS SPACED 18" - 2" APART.

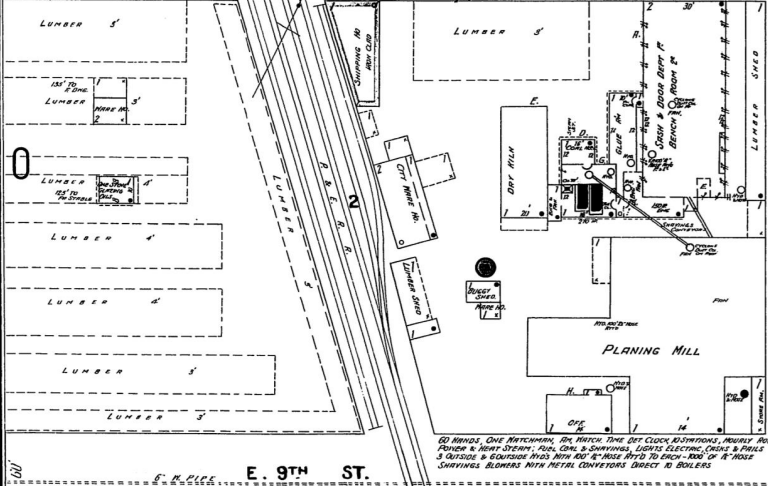


Scale of Feet.

E. 10TH ST.

THE BAUSCHARD CO.

LUMBER YARD AND SASH, DOOR & BLIND FACTORY

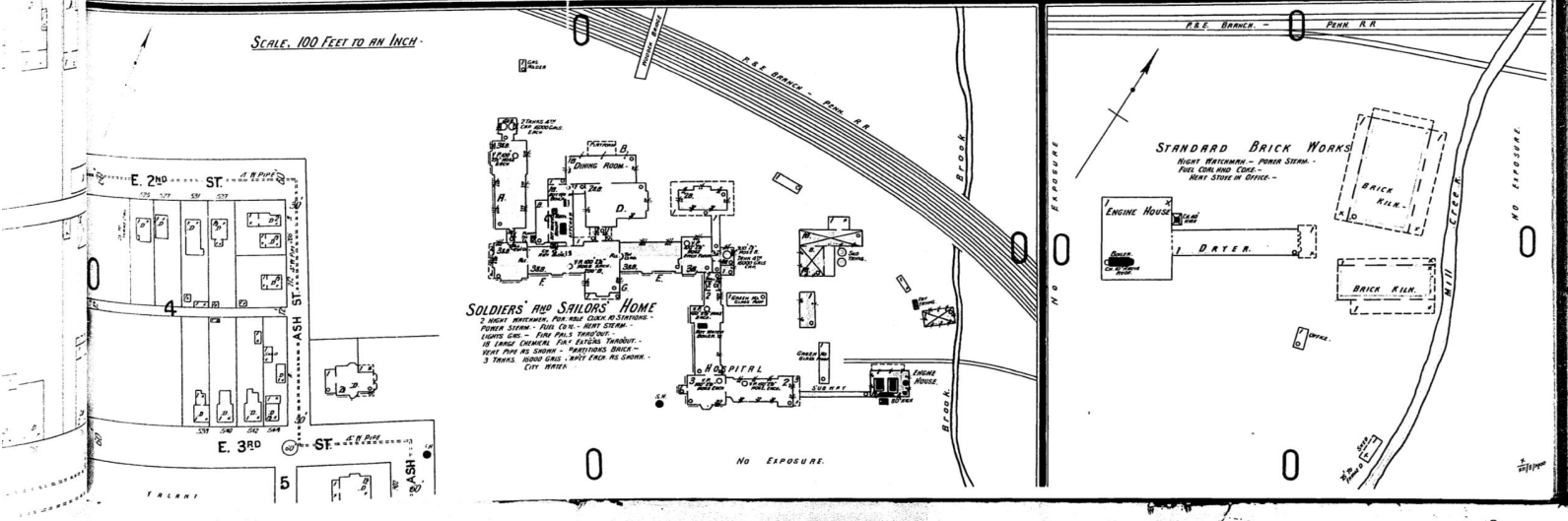
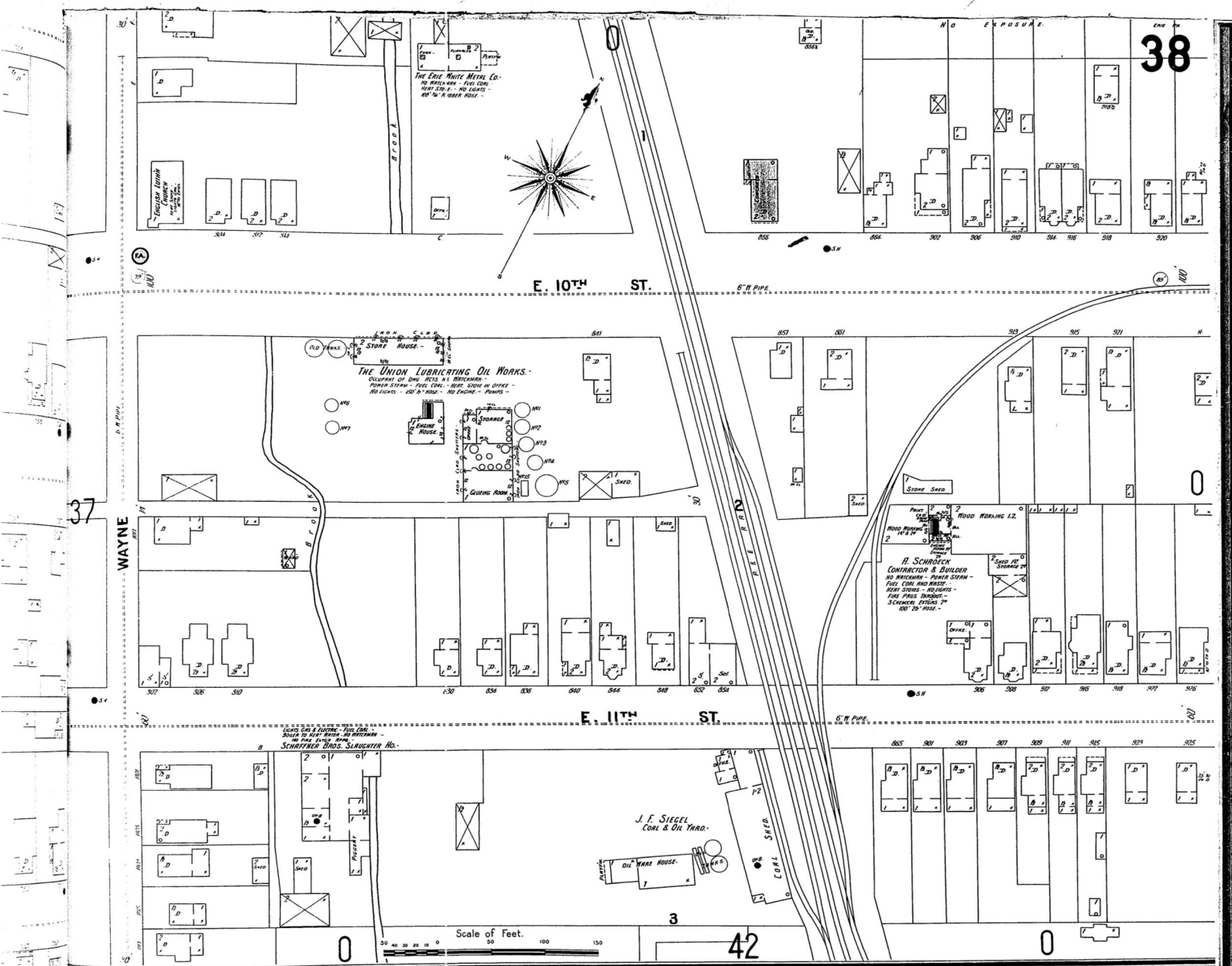


NO WIRE, ONE PARTITION, ONE MATCH THE DRY CLOCK, EXTENSIVE, HEAVY ROOFING POWER & HEAT STEAM, FUEL OIL & SHOVING, LIGHTS, ELECTRIC, CHIMNELS & PAULS & OUTSIDE & SEAMLESS PAULS WITH 20" W/8 W/8 W/8 TO EACH END OF 18" HOLES SHOVING BLOWERS WITH METAL CONVEYORS DIRECT TO BOLLERS

NO EXPOSURE

NO EXPOSURE

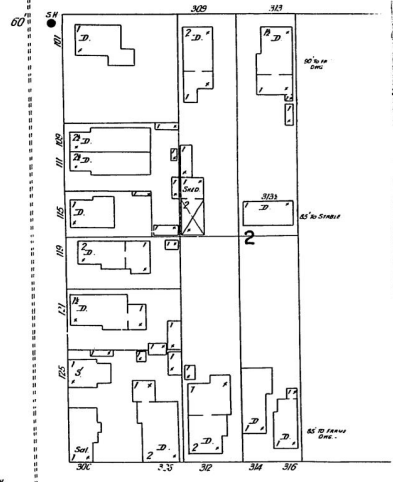
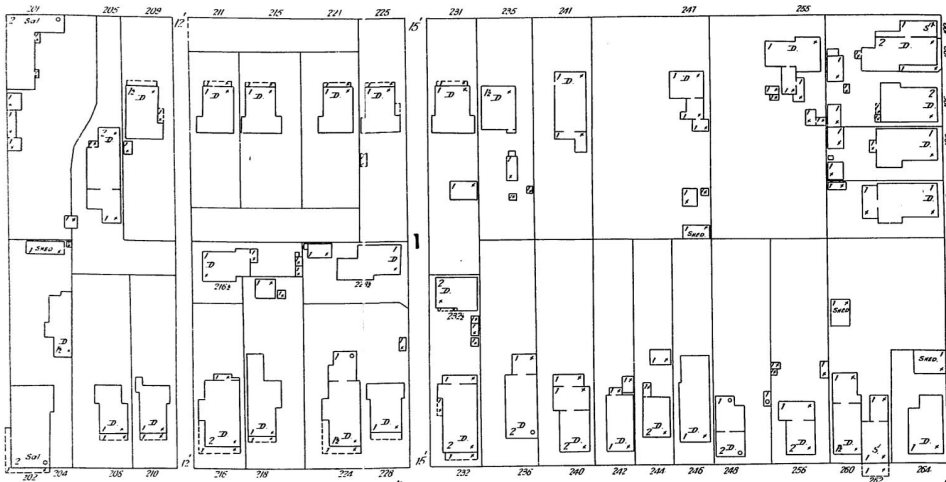
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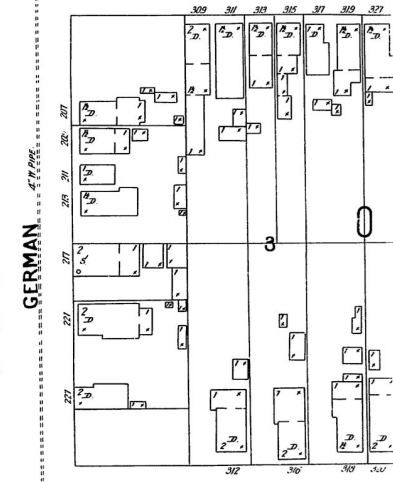
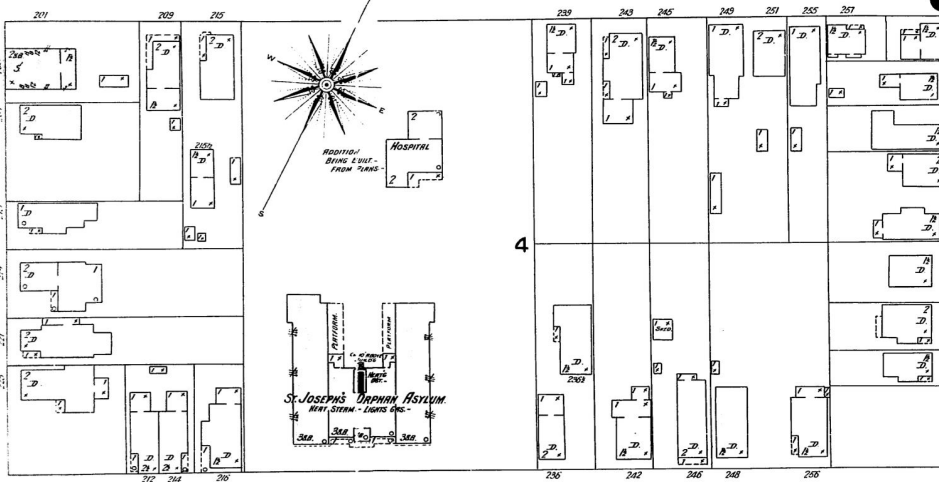
0
E. FRONT

24



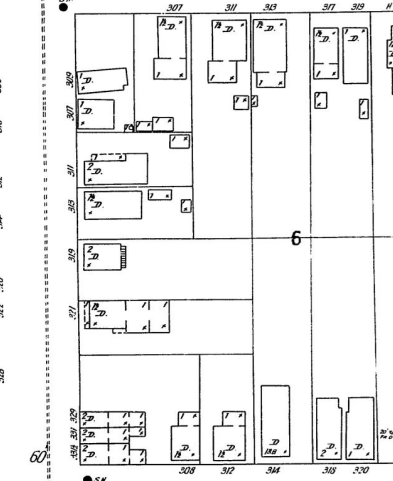
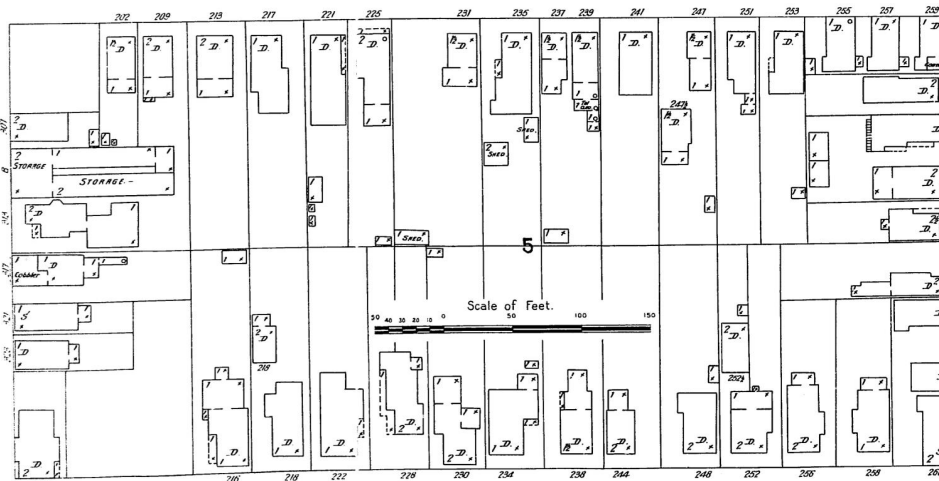
E. 2ND ST.

13



E. 3RD ST.

13



E. 4TH ST.

25

26

Sheet 24
1900

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Presque Isle Bay

ERIE AND WESTERN TRANSPORTATION CO.

SCALE 50 FEET TO AN INCH

SCALE 80 FEET TO AN INCH

Middle Slip

East Slip

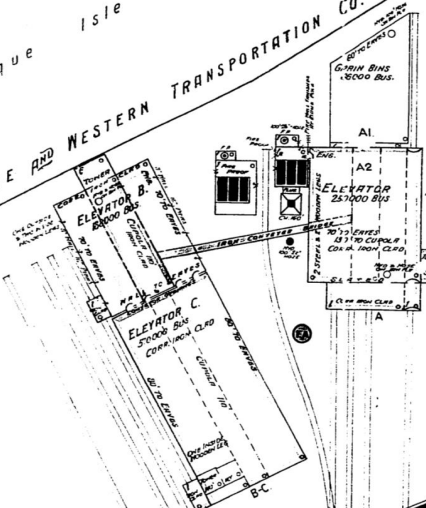
Cool & Ore Slip

McMILLER'S HOUSES
One DUMP

RAILROAD

PENNSYLVANIA

HOLLAND



From *Sanborn & Son*, *Philadelphia, Pa.*, 1900.
 Plans & Specifications for the
 Elevators and Grain Bins, and
 Conveyors, with *McMiller's* *Houses*,
 and *One Dump*, at *Presque Isle Bay*,
 Pa., 1900. *Scale*, 50 Feet to an Inch.
 (For *Construction* *See* *Notes*.)

ONE RECEPTOR IN EACH FREIGHT HO.
 ELECTRIC CLOCK 1 1/2" ELECTRIC
 TONGUE IN GRAB

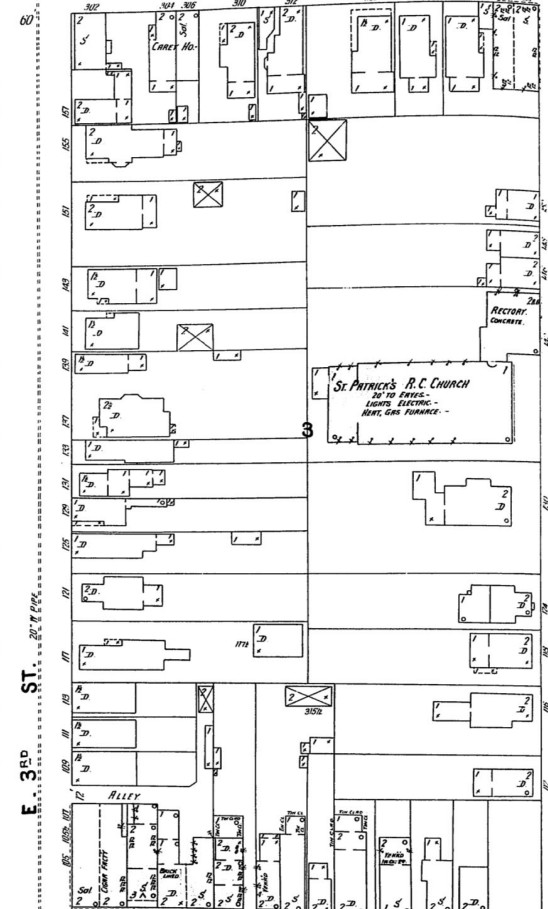
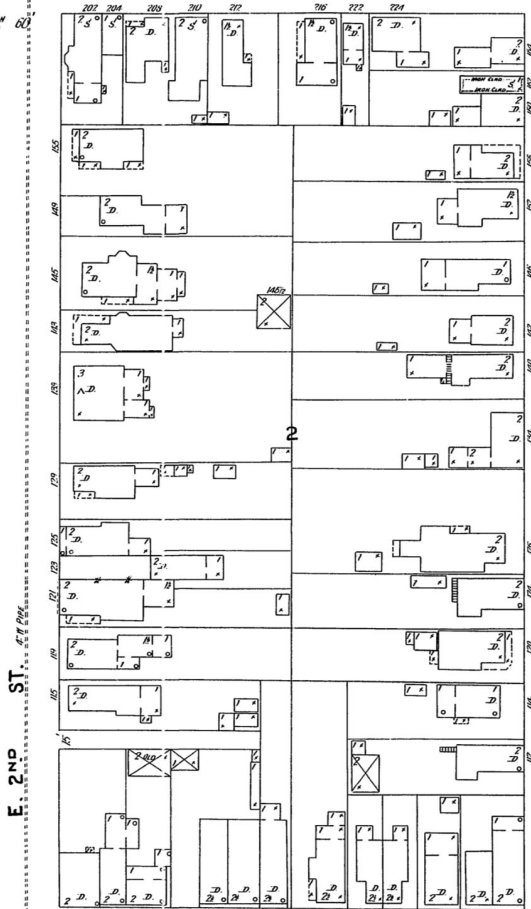
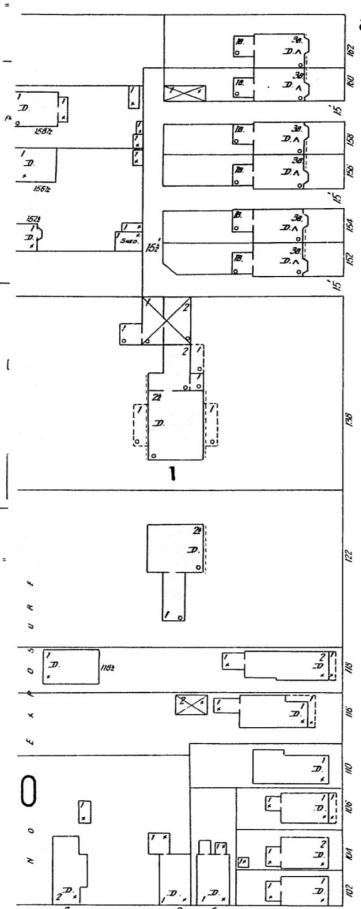
Scale 80 feet to an Inch

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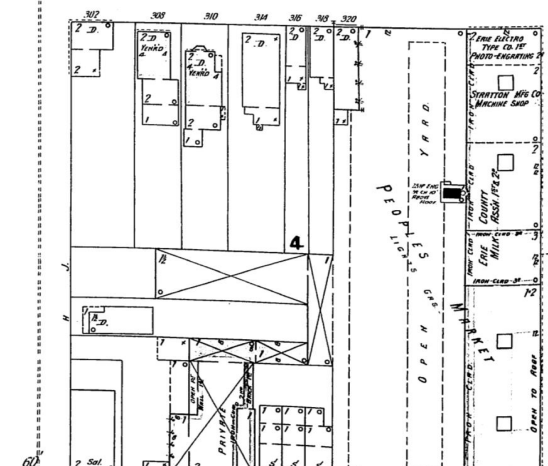
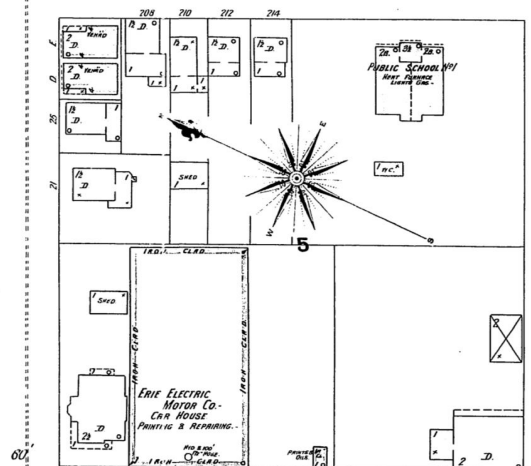
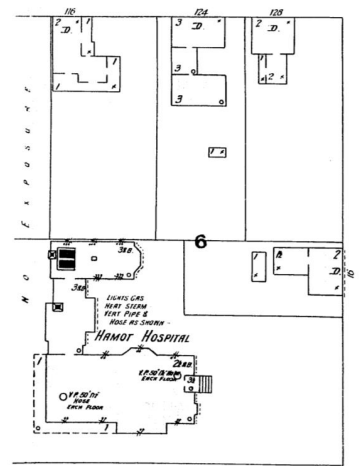
13

24

HOLLAND

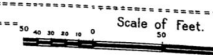


FRENCH



STATE

3

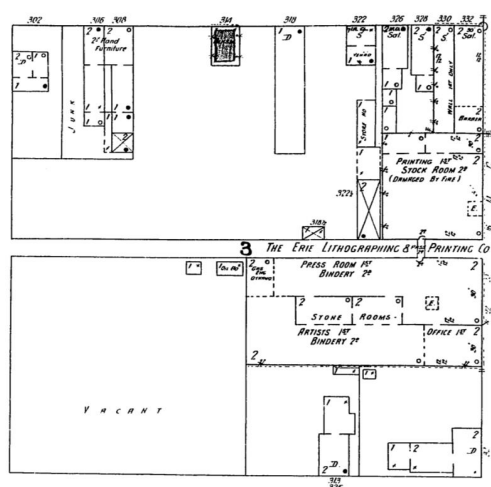
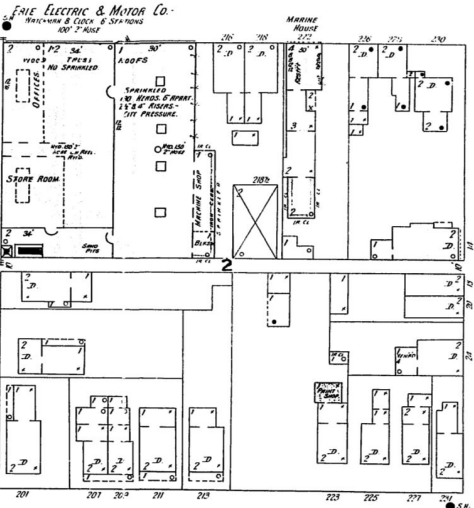


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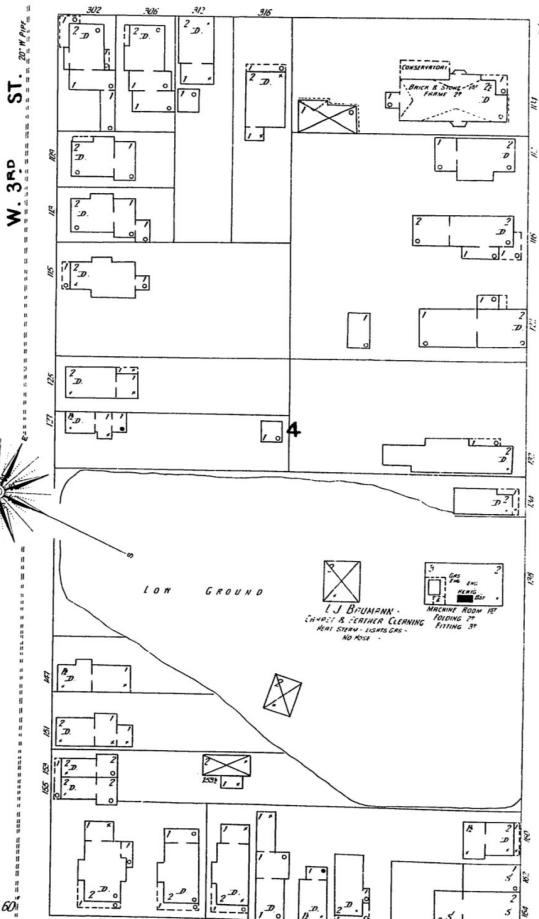
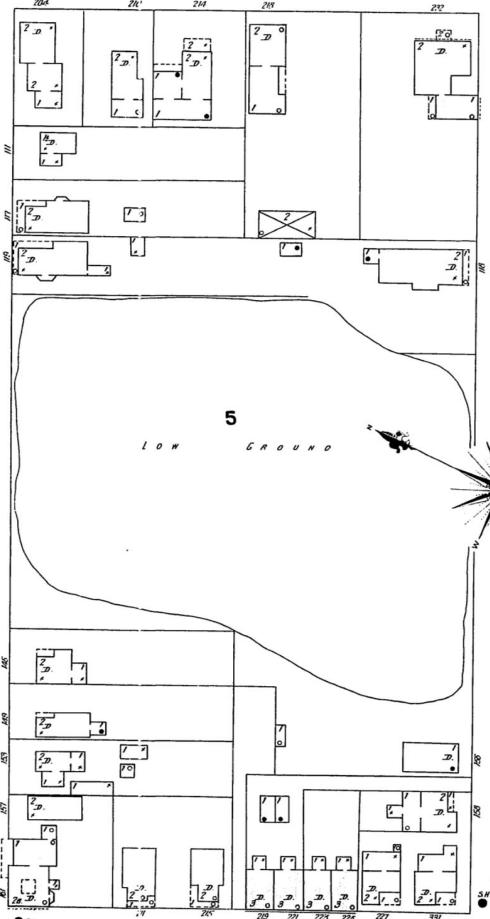
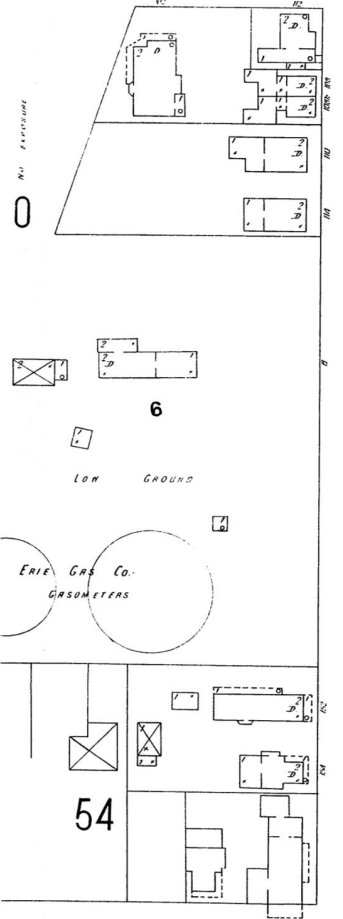
3

13

STATE



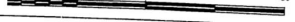
PEACH



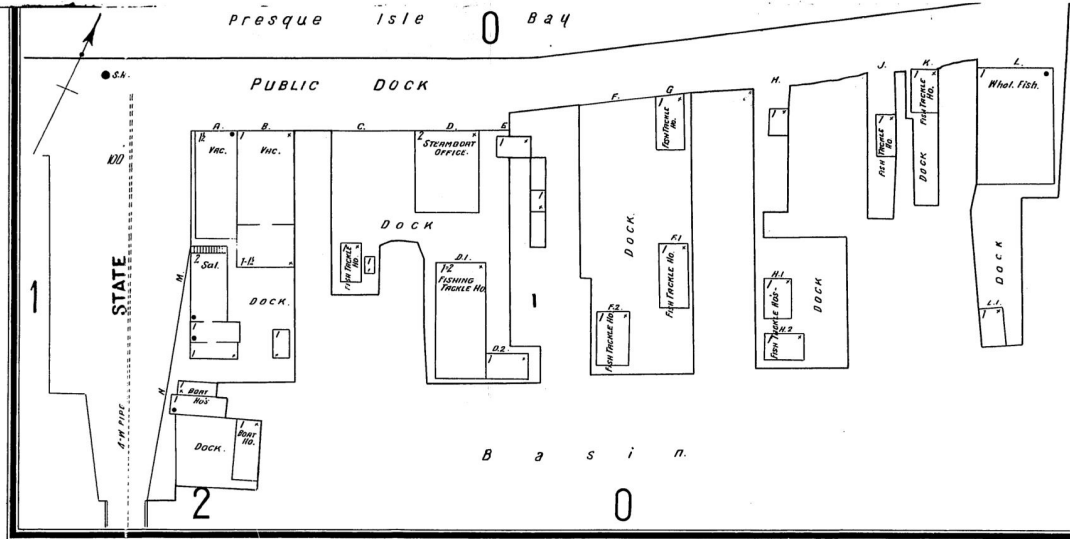
SASSAFRAS

54

Scale of Feet.



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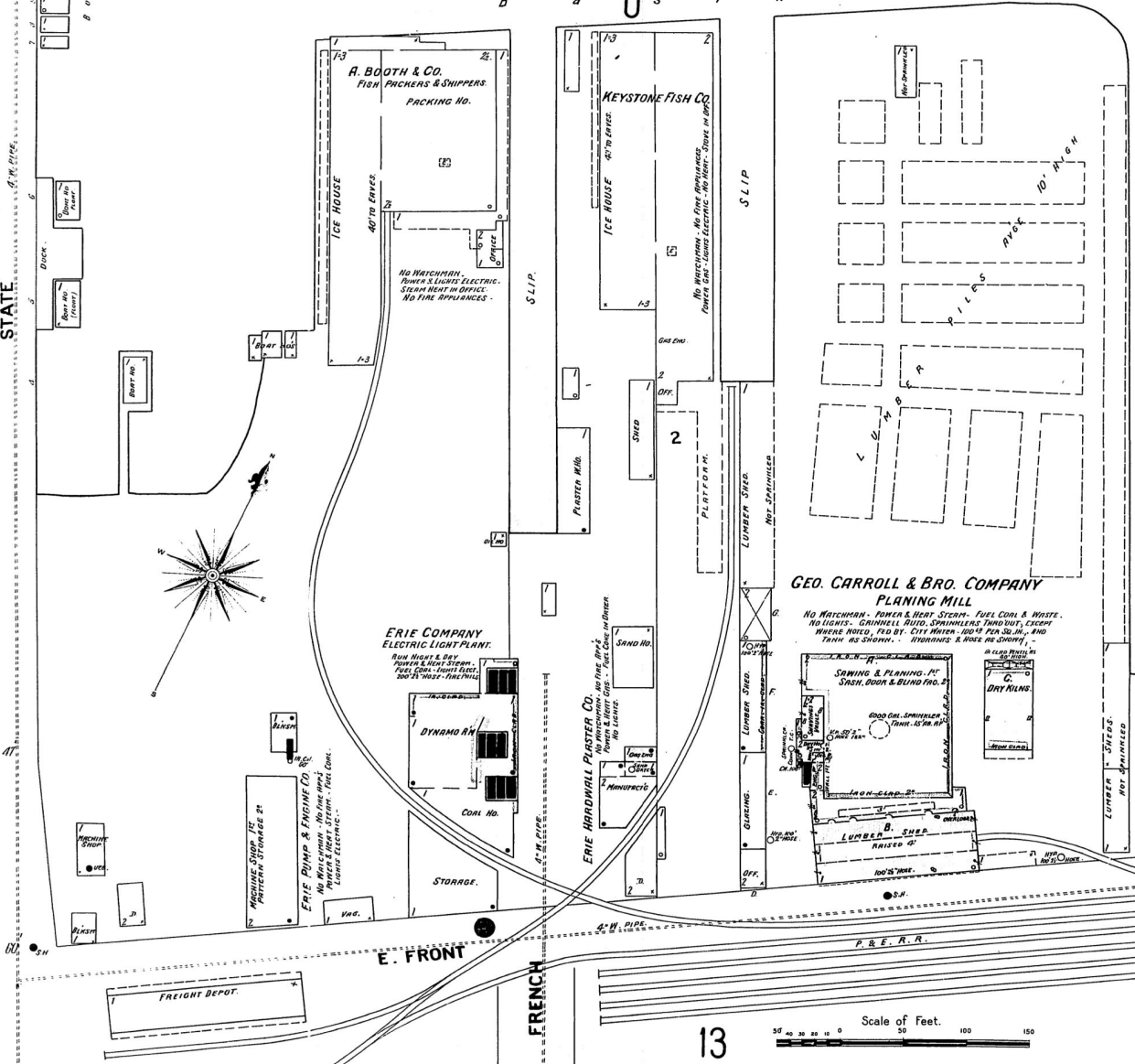


STATE

2

1

STATE

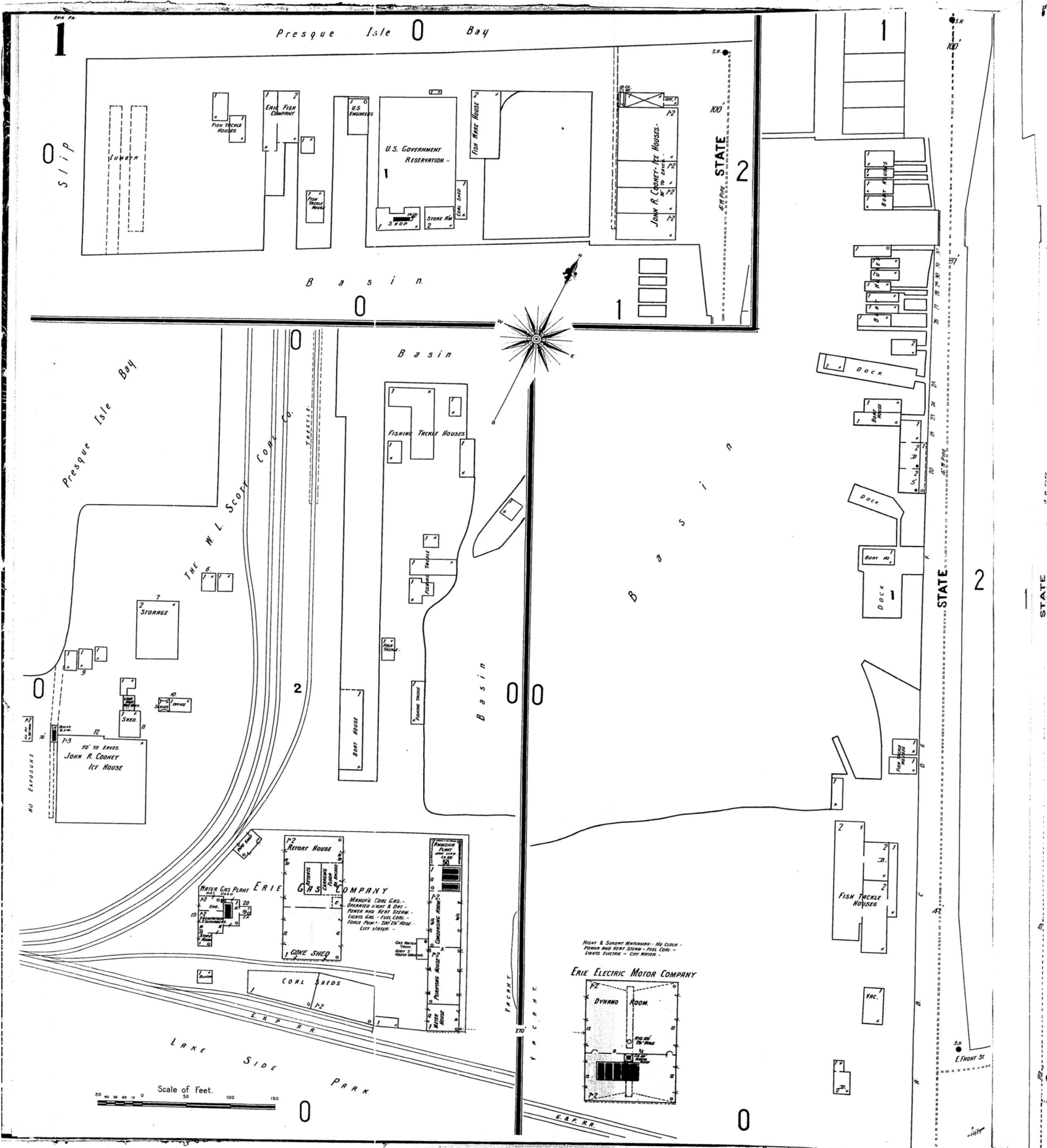


B a s i n

23

13

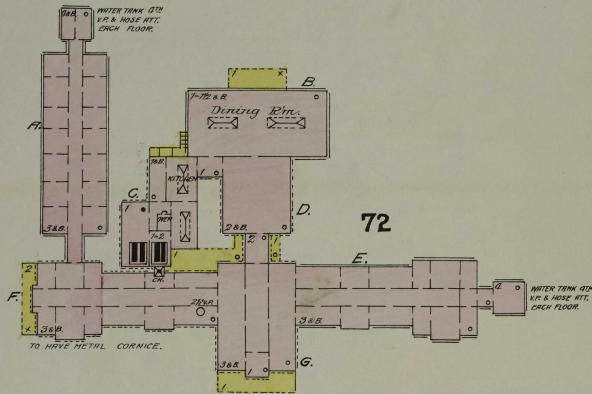
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115

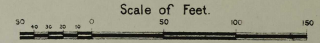
No Exposure any Side.



72

THE SOLDIERS AND SAILORS HOME.

2 1/2" V.P. 120' 28" HOSE ATT. EACH FLOOR, ALSO TO HAVE V.P. AT WATER TOWERS WITH HOSE ATT. EACH FLOOR. 1-NIGHT WATCHMAN. NO CLOCK, HEAT, STEAM, FUEL, COAL, LIGHTS, KEROSE. OIL. IRON COMMUNICATING DOORS BETWEEN EACH WING. PARTITIONS THROUGHOUT ARE BRICK.



E. 32ND ST. BEYOND.

438

393

Cemetery.

ERIE CEMETERY.

W. 26TH ST.

439

A

392

391

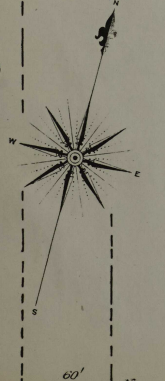
345

POPLAR

HAZEL

MAPLE

CHERRY

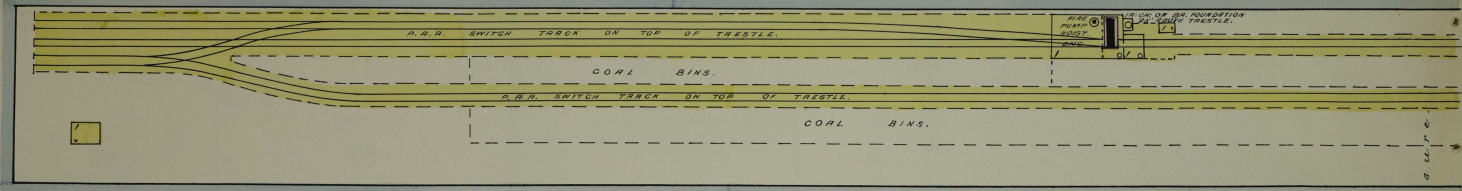


BRANCH OF THE
SOUTH ERIE IRON WORKS
CHRYSLER BLDG. HOURS: 8:00 A.M. TO 12:00 P.M.
NIGHT WATCHMAN. TIME CLOCK. 2
STATIONS. NO FIRE TOWER. HEAVY COAL
STOVES. FUEL, COAL, LIGHTS, KEROSE.
OIL.

WATER WORKS RESERVOIR BEYOND.

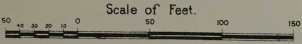
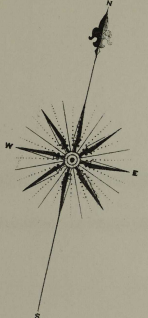
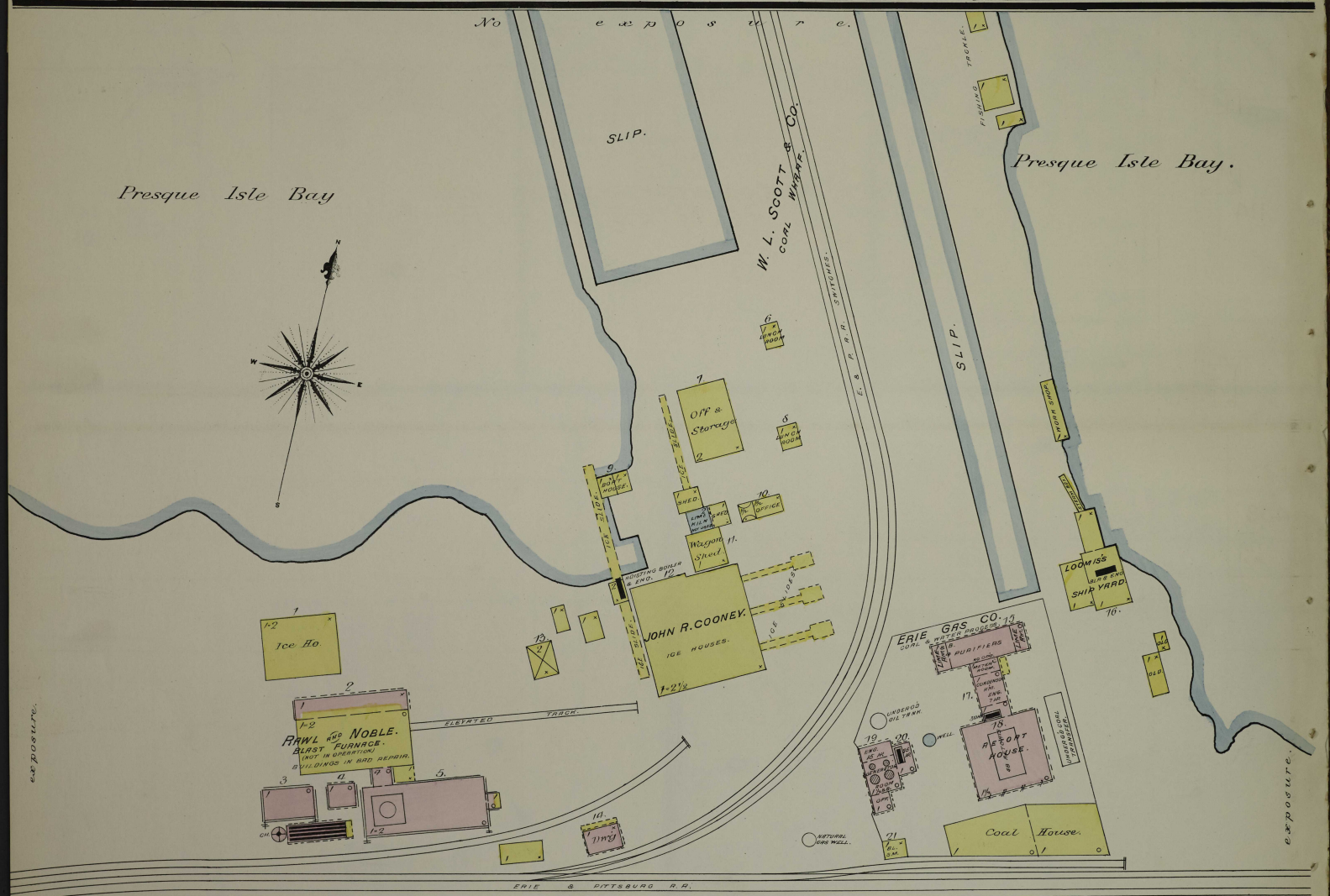
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Presque Isle Bay.



W. L. SCOTT AND CO.
 COAL TRANSFER TREESTLE.
 NIGHT WATCHMAN; FIRE PUMP; SUPPLY OF 2 1/2" RUBBER HOSE.

EXP. 1888



ORSMETERS BEYOND. SEE SHEET NO. 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

EXP. 1888

EXP. 1888

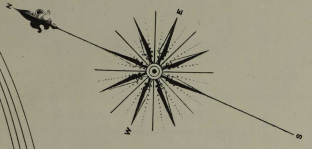
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SEE SHEET
NO. 3

218

217

FRENCH



219

220

FRONT

HAMOT HOSPITAL

STATE

SEE SHEET
NO. 4

259

258

W. 2ND ST.

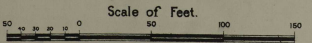
W. 3RD ST.

SEE SHEET

PEACH

260

261



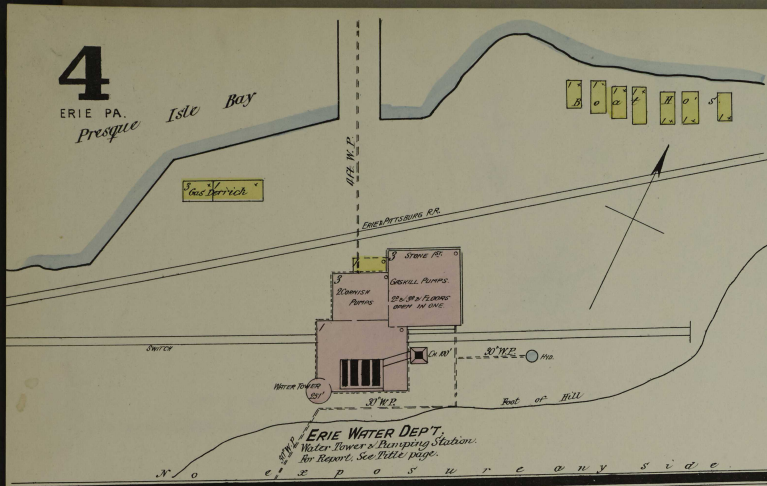
GIROUSETS OF THE ERIE FIRE CO. BEYOND
SEE SHEET NO. 4

SEE

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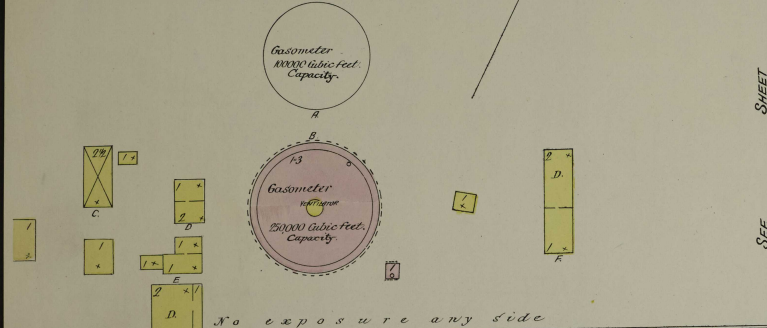
4

ERIE PA.
Presque Isle Bay



SEE SHEET N°34.
Gas Works Beyond

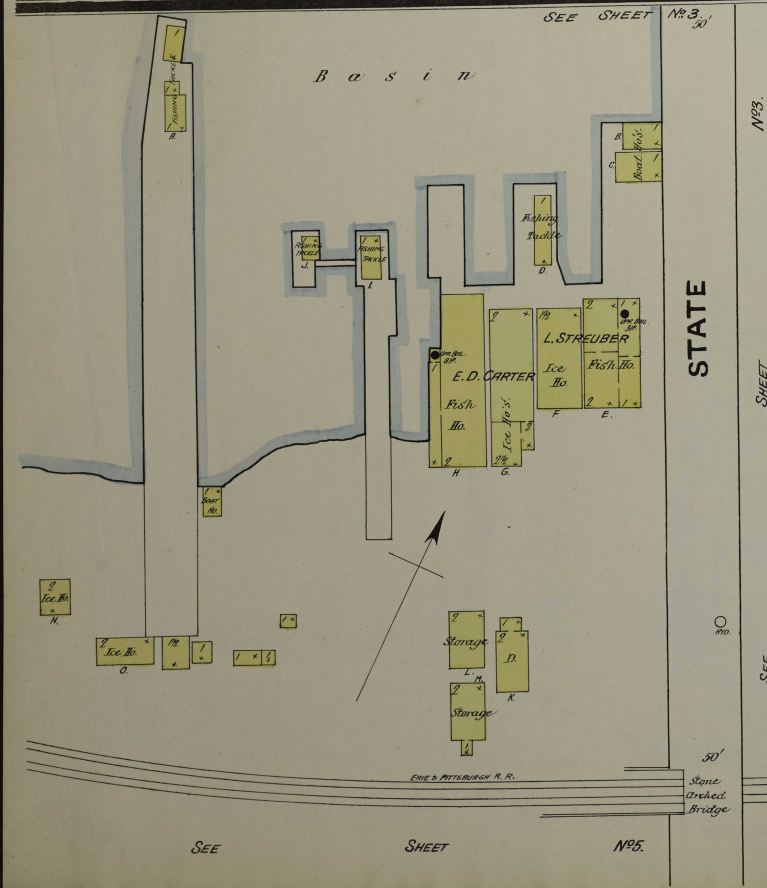
ERIE GAS CO'S GASMETERS



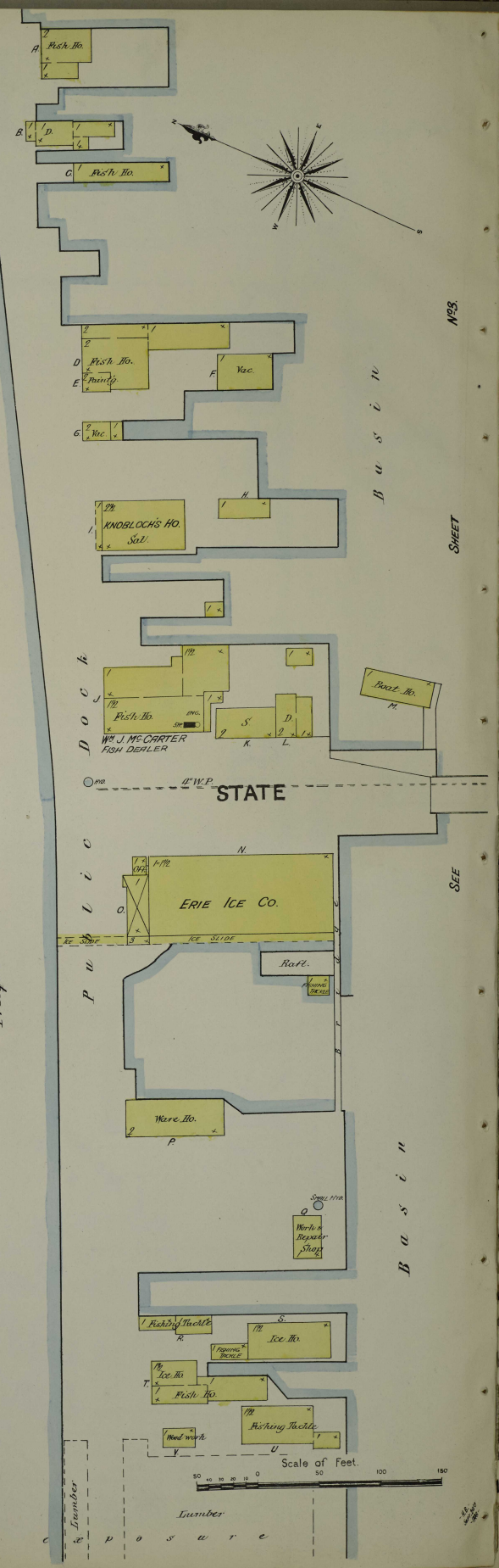
No exposure any side

SEE SHEET N°35

B a s i n



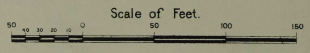
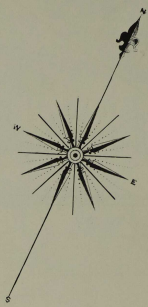
SEE SHEET N°5



Scale of Feet. 0 50 100 150

Sheet 4
1888

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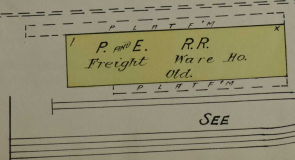
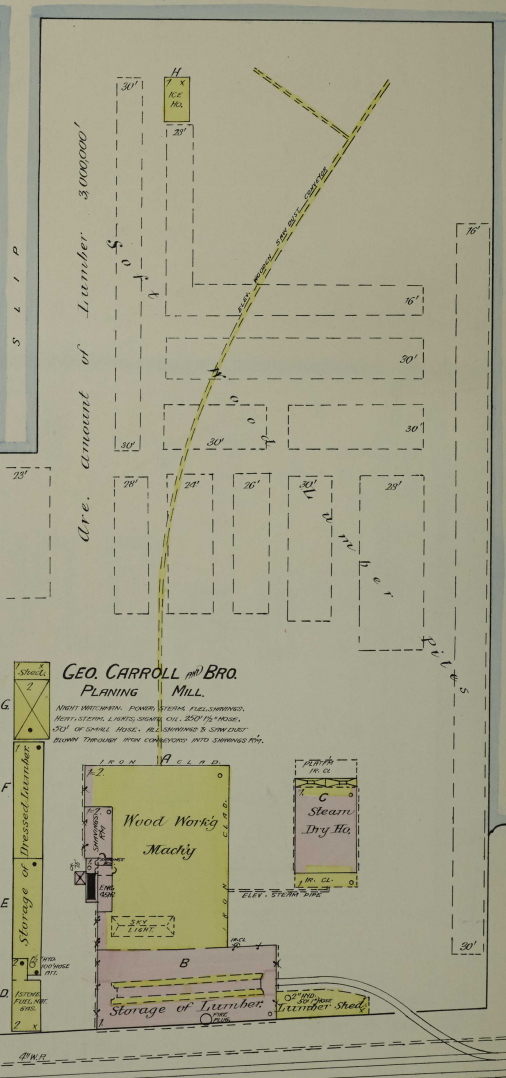
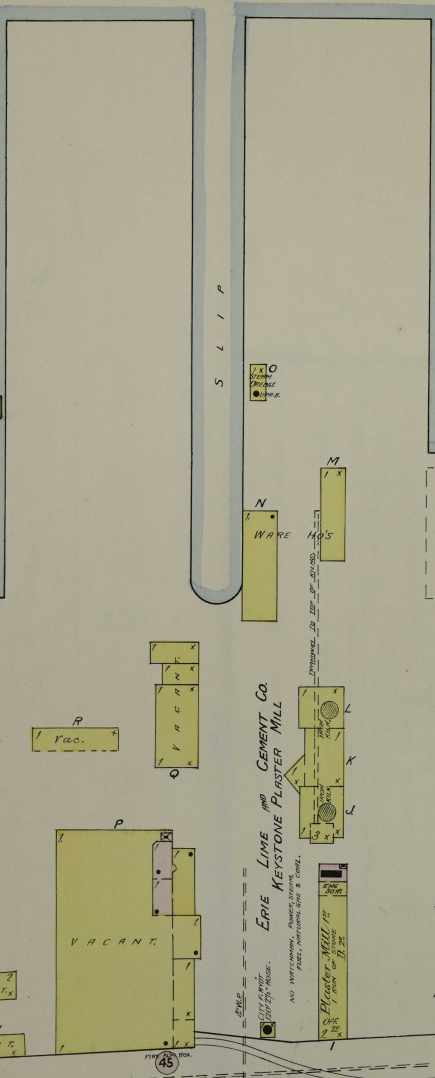
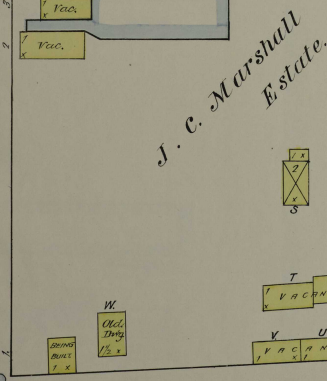
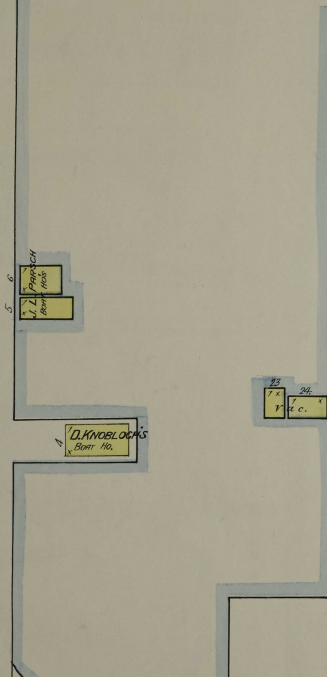
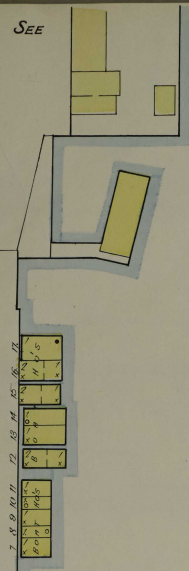
Presque Isle Bay

STATE

Basin No. 4

FISH WARE SHEET No. 4

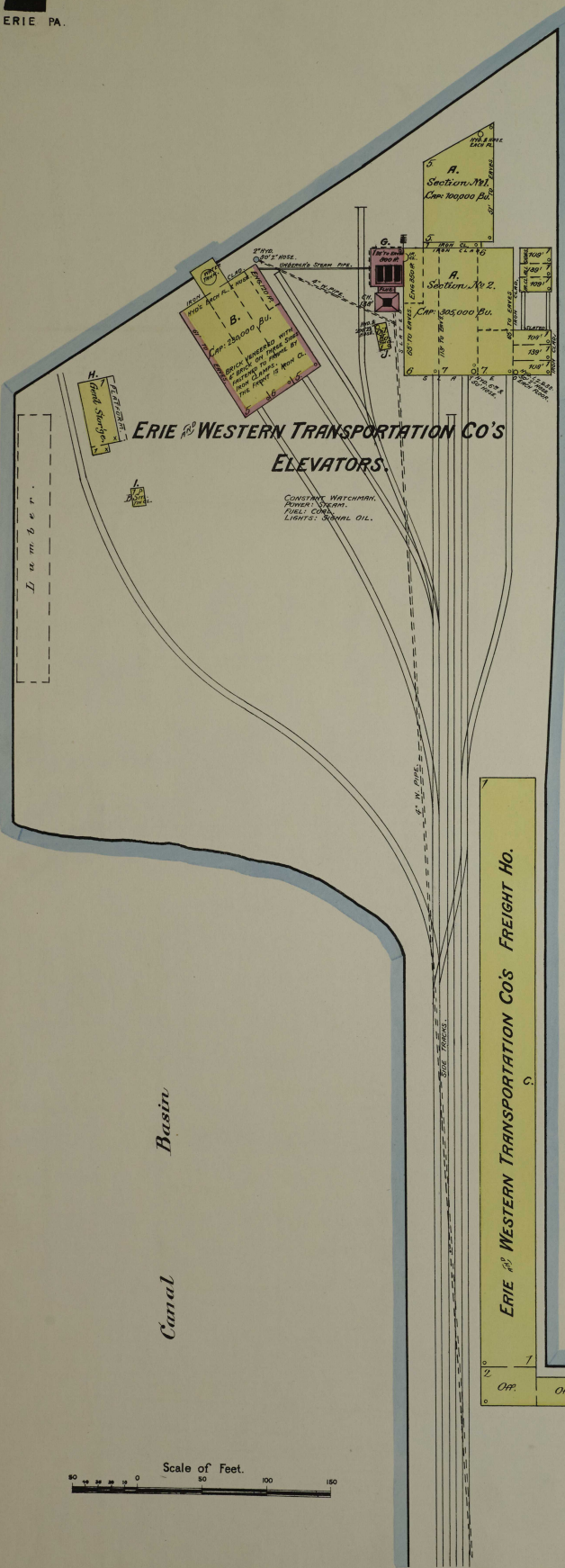
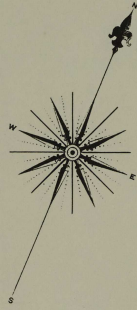
SEE



FRONT SHEET FRENCH ST

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Presque Isle Bay



ERIE WESTERN TRANSPORTATION CO'S
ELEVATORS.

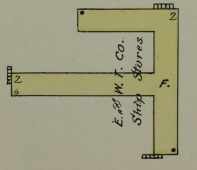
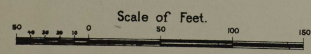
CONSPICUOUS WATCHMAN,
FUEL COAL,
LIGHTS: SIGNAL OIL.

ERIE WESTERN TRANSPORTATION CO'S FREIGHT HO.

Steamer Slip

ERIE WESTERN TRANSPORTATION CO'S FREIGHT WARE HO.

Ice Ho.
E.



C.P. 500

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Historical Aerial Photographs

[NEW: GeoLens by Geosearch](#)

Target Property:

Bayfront Parkway Improvement Project

Erie, Erie, Pennsylvania 16507

Prepared For:

MS Consultants-Moon

Order #: 134806

Job #: 321089

Project #: 60-06808-03-05-02-0802

Date: 10/30/2019

Target Property Summary

Bayfront Parkway Improvement Project

Erie, Erie, Pennsylvania 16507

USGS Quadrangle: **Erie North**

Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):

(-80.096984000, 42.132293000), (-80.096131000, 42.132686000), (-80.095628000, 42.132851000),
(-80.095207000, 42.133085000), (-80.094248000, 42.133345000), (-80.093979000, 42.133440000),
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Aerial Research Summary

<u>Date</u>	<u>Source</u>	<u>Scale</u>	<u>Frame</u>
2015	USDA	1" = 700'	N/A
2013	USDA	1" = 700'	N/A
2010	USDA	1" = 700'	N/A
2008	USDA	1" = 700'	N/A
2005	USDA	1" = 700'	N/A
2004	USDA	1" = 700'	N/A
09/04/1987	USGS	1" = 700'	N/A
04/07/1993	USGS	1" = 700'	N/A
05/11/1983	USGS	1" = 700'	123-20
05/10/1975	USGS	1" = 700'	1-46
03/23/1969	USGS	1" = 700'	1-18
03/23/1969	USGS	1" = 700'	1-16
05/03/1960	USAF	1" = 700'	56-5283
10/25/1956	AMS	1" = 700'	739
07/08/1950	ASCS	1" = 700'	3-118
05/03/1939	ASCS	1" = 700'	41-18

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Bayfront Parkway Improvement Project
USDA
2015

GeoSearch



Bayfront Parkway Improvement Project
USDA
2013

GeoSearch



Bayfront Parkway Improvement Project
USDA
2010

GeoSearch



Bayfront Parkway Improvement Project
USDA
2008

GeoSearch



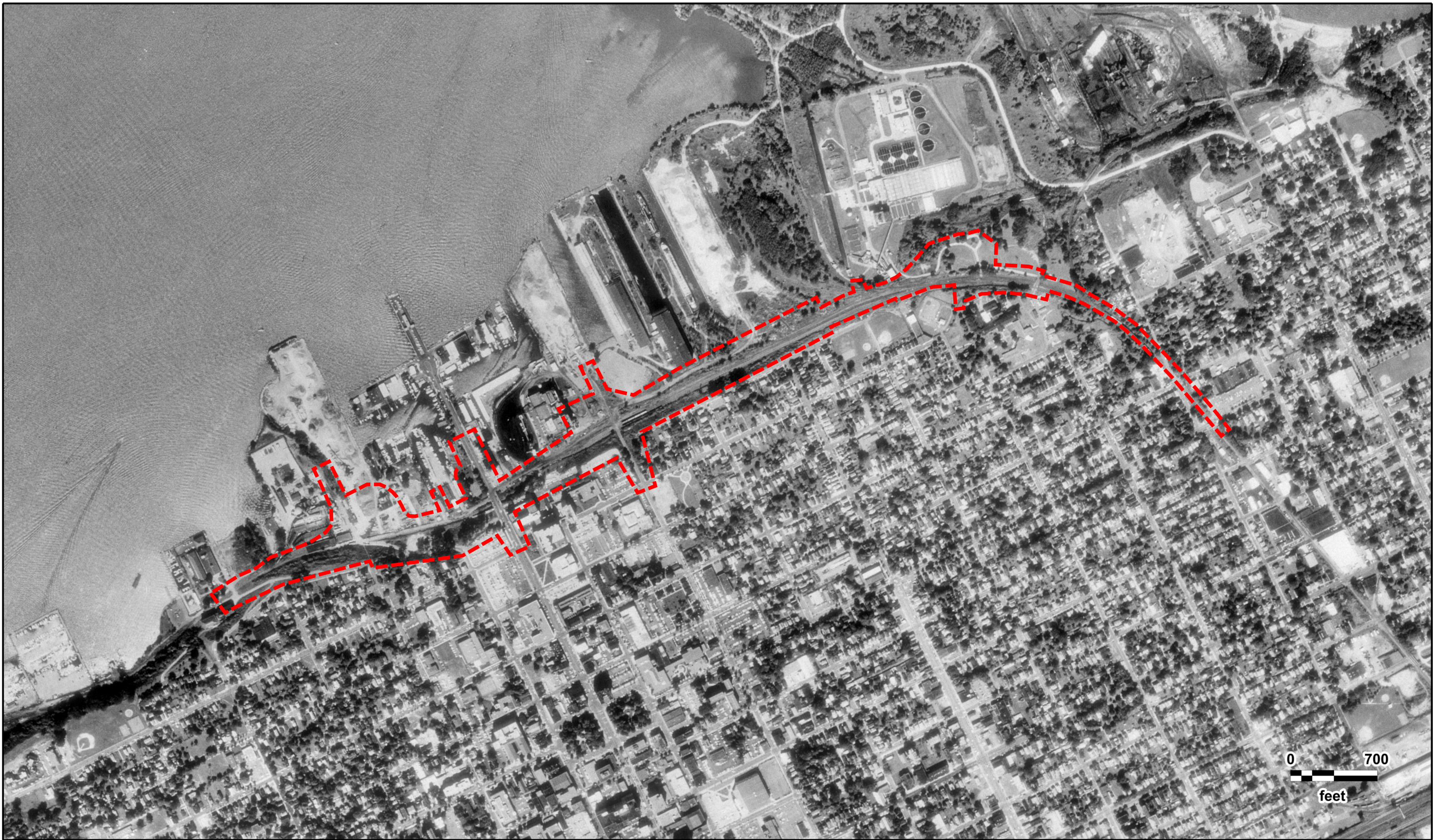
Bayfront Parkway Improvement Project
USDA
2005

GeoSearch



Bayfront Parkway Improvement Project
USDA
2004

GeoSearch

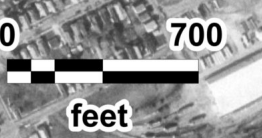


Bayfront Parkway Improvement Project
USGS
09/04/1987

GeoSearch



Bayfront Parkway Improvement Project
USGS
04/07/1993

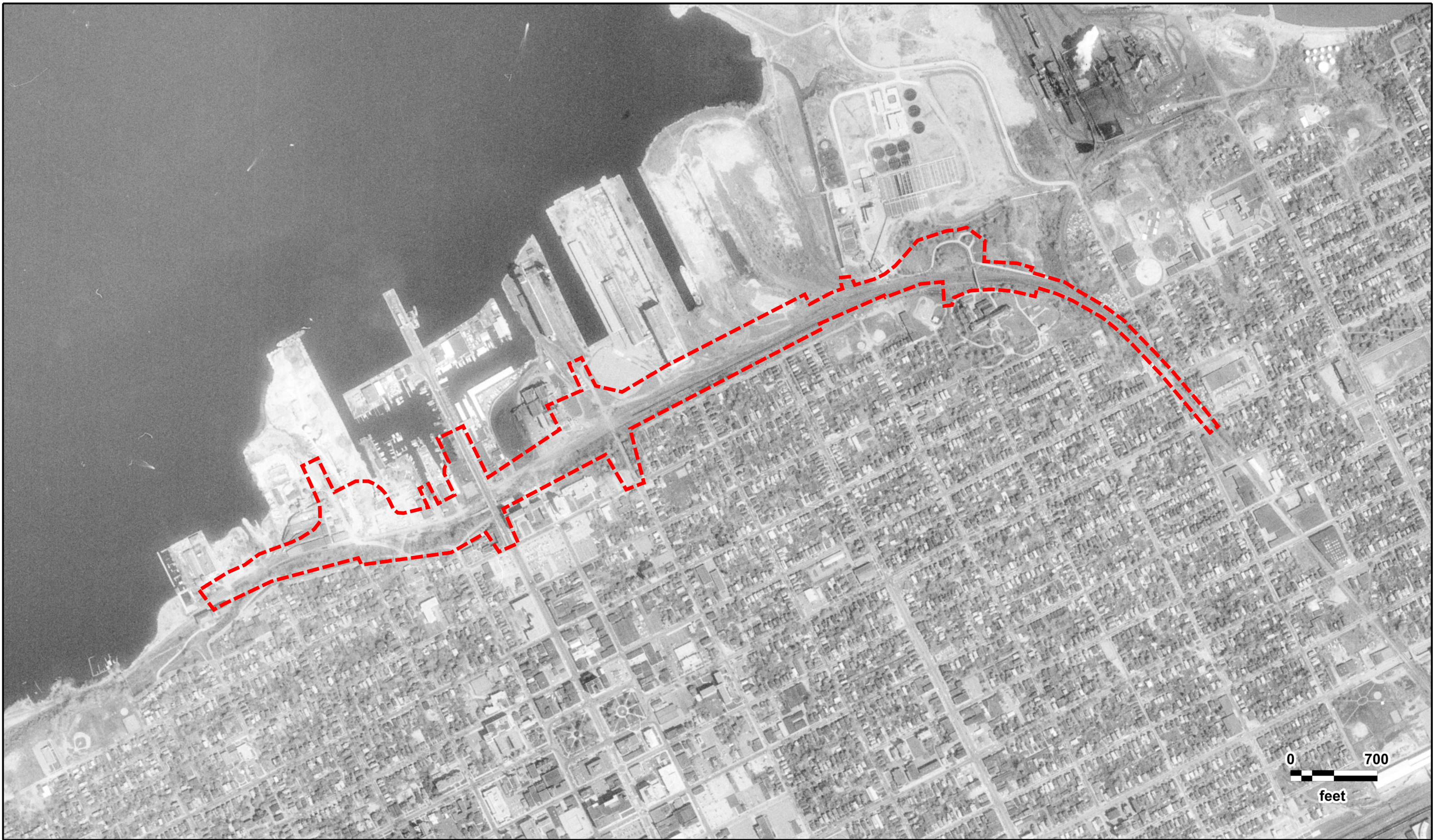


GeoSearch



Bayfront Parkway Improvement Project
USGS
05/11/1983

GeoSearch



Bayfront Parkway Improvement Project
USGS
05/10/1975





0 700
feet



Bayfront Parkway Improvement Project
USGS
03/23/1969

GeoSearch



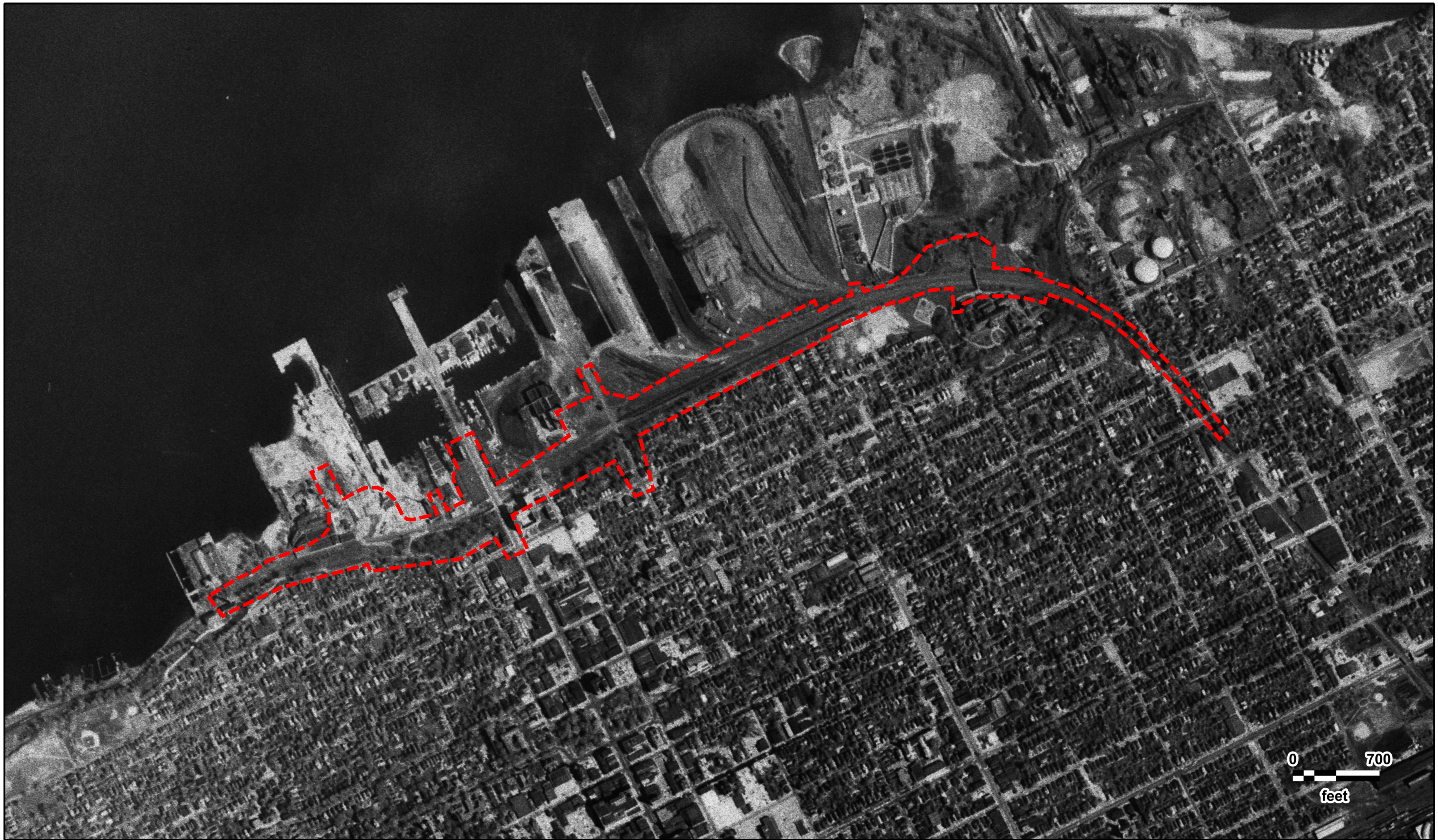
91-1

0 700
feet



Bayfront Parkway Improvement Project
USGS
03/23/1969

GeoSearch



0 700
feet



Bayfront Parkway Improvement Project
USAF
05/03/1960

GeoSearch



Bayfront Parkway Improvement Project
AMS
10/25/1956

GeoSearch



Bayfront Parkway Improvement Project
ASCS
07/08/1950

GeoSearch



Bayfront Parkway Improvement Project
ASCS
05/03/1939



City Directory Target Property Address

Target Property:

*E Bayfront Pkwy,
Erie, PA 16501*

Prepared For:
MS Consultants-Moon

Order #: 134806

Project #: 60-06808-03-05-02-0802

Date: 10/25/2019

City Directory Target Property Address

E Bayfront Pkwy, Erie, PA 16501

1 E BAY FRONT ST

1990	STREET BEGINS	R.L. POLK & CO.	ERIE
1984	STREET BEGINS	R.L. POLK & CO.	ERIE
1979-80	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1975	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1970	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1965	STREET NOT LISTED	ATKINSON DIRECTORY CO	ERIE
1960	STREET NOT LISTED	ATKINSON DIRECTORY CO	ERIE

1 NO # E BAY FRONT ST

1990	LUND BOAT WORKS [REPR & SERV]	R.L. POLK & CO.	ERIE
1990	MC ALLISTER J K AGENCY [YACHT INS]	R.L. POLK & CO.	ERIE
1990	MC ALLISTER R D & SON LTD [BOATS SLS STGE & SERV]	R.L. POLK & CO.	ERIE
1984	LUND BOAT WORKS [REPR & SERV BOATS]	R.L. POLK & CO.	ERIE
1984	MC ALLISTER J K AGENCY [YACHT INS]	R.L. POLK & CO.	ERIE
1984	MC ALLISTER R D & SON LTD [BOATS SLS STGE & SERV]	R.L. POLK & CO.	ERIE
1979-80	LUND BOAT WORKS [REPR & SERV BOATS]	ATKINSON DIRECTORY CO	ERIE
1979-80	MC ALLISTER J K AGENCY [YACHT INS]	ATKINSON DIRECTORY CO	ERIE
1979-80	MC ALLISTER R D & SON LTD [BOATS SLS STGE & SERV]	ATKINSON DIRECTORY CO	ERIE
1979-80	BAYSHORE MARINE (RACK STGE)	ATKINSON DIRECTORY CO	ERIE
1979-80	X [END OF LISTINGS]	ATKINSON DIRECTORY CO	ERIE
1975	LUND BOAT WORKS [REPR & SERV BOATS]	ATKINSON DIRECTORY CO	ERIE
1975	MC ALLISTER J K AGENCY [YACHT INS]	ATKINSON DIRECTORY CO	ERIE
1975	MC ALLISTER R D & SON LTD [BOATS SLS STGE & SERV]	ATKINSON DIRECTORY CO	ERIE
1975	NORTHWEST MARINE (RACK STGE)	ATKINSON DIRECTORY CO	ERIE
1975	X [END OF LISTINGS]	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

E Bayfront Pkwy, Erie, PA 16501

1970	LUND BOAT WORKS [REPR & SERV BOATS]	ATKINSON DIRECTORY CO	ERIE
1970	MC ALLISTER J K AGENCY [YACHT INS]	ATKINSON DIRECTORY CO	ERIE
1970	MC ALLISTER R D & SON LTD [BOATS SLS STGE & SERV]	ATKINSON DIRECTORY CO	ERIE
1970	X [END OF LISTINGS]	ATKINSON DIRECTORY CO	ERIE

1 E BAYFRONT PKWY

2019	STREET BEGINS	R.L. POLK & CO.	ERIE
2019	X [W BAYFRONT PKWY INTS]	R.L. POLK & CO.	ERIE
2019	Y [HOLLAND ST INTS]	R.L. POLK & CO.	ERIE
2014	STREET BEGINS	R.L. POLK & CO.	ERIE
2014	X [W BAYFRONT PKWY INTS]	R.L. POLK & CO.	ERIE
2014	Y [HOLLAND ST INTS]	R.L. POLK & CO.	ERIE
2011	STREET BEGINS	R.L. POLK & CO.	ERIE
2011	X [W BAYFRONT PKWY INTS]	R.L. POLK & CO.	ERIE
2011	Y [HOLLAND ST INTS]	R.L. POLK & CO.	ERIE
2005	STREET BEGINS	R.L. POLK & CO.	ERIE
2005	X [STATE ST CONTINUES]	R.L. POLK & CO.	ERIE
2005	Y [W BAYFRONT PKWY INTS]	R.L. POLK & CO.	ERIE
2005	Z [HOLLAND ST INTS]	R.L. POLK & CO.	ERIE

133 E BAY FRONT ST

1990	BAYSHORE MARINE [SLS & SERV]	R.L. POLK & CO.	ERIE
1990	RUM RUNNERS [RESTR]	R.L. POLK & CO.	ERIE
1990	X [END OF LISTINGS]	R.L. POLK & CO.	ERIE
1984	BAYSHORE MARINE (RACK STGE) [SLS & SERV]	R.L. POLK & CO.	ERIE
1984	X [END OF LISTINGS]	R.L. POLK & CO.	ERIE

208 E BAYFRONT PKWY

2019	ERIE METROPOLITAN TRANSIT AUTH [TRANSIT LINES]	R.L. POLK & CO.	ERIE
2019	HOWARD HANNA [REAL ESTATE]	R.L. POLK & CO.	ERIE
2019	SUNRISE COUNSELING SVC [COUNSELORS]	R.L. POLK & CO.	ERIE
2019	ERIE REGIONAL CHAMBER [CHAMBERS OF COMMERCE]	100 R.L. POLK & CO.	ERIE

City Directory Target Property Address

E Bayfront Pkwy, Erie, PA 16501

2019	WALTERS STEVE	100	R.L. POLK & CO.	ERIE
2019	GREYHOUND LINES [BUS LINES]	101	R.L. POLK & CO.	ERIE
2019	GREYHOUND PACKAGE XPRESS [DELIVERY SERV]	101	R.L. POLK & CO.	ERIE
2019	REPRESENTATIVE MIKE KELLY [GOVERNMENT OFFICES-US]	102	R.L. POLK & CO.	ERIE
2019	VISITERIE [NON-PROFIT ORG]	103	R.L. POLK & CO.	ERIE
2019	ADDICTION OUT REACH CLINIC [PHYSICIANS & SURGEONS]	104	R.L. POLK & CO.	ERIE
2019	MICHELLE BURKE MASSAGE THERAPY [MASSAGE THERAPISTS]	200A	R.L. POLK & CO.	ERIE
2019	TBAER FINANCIAL INC [FINANCIAL PLANNING CONSULTANTS]	202	R.L. POLK & CO.	ERIE
2019	VICTORIAN PRINCESS CRUISE LINE [BOAT EQUIP/SUPL]	205	R.L. POLK & CO.	ERIE
2014	HANNA HOWARD CO [REAL ESTATE]		R.L. POLK & CO.	ERIE
2014	ERIE AREA CHAMBER OF COMMERCE [CHAMBERS OF COMMERCE]	100	R.L. POLK & CO.	ERIE
2014	GREYHOUND LINES [BUS LINES]	101	R.L. POLK & CO.	ERIE
2014	REPRESENTATIVE MILK KELLY [GOVERNMENT OFFICES-US]	102	R.L. POLK & CO.	ERIE
2014	VISITERIE [CONVENTION INFO BUREAUS]	103	R.L. POLK & CO.	ERIE
2014	PORT AUTHORITY [GOVERNMENT OFFICES-US]	201	R.L. POLK & CO.	ERIE
2014	T BAER FINANCIAL [FINANCIAL PLANNING CONSULTANTS]	202	R.L. POLK & CO.	ERIE
2014	VICTORIAN PRINCESS CRUISE LINE [BOAT EQUIP/SUPL]	205	R.L. POLK & CO.	ERIE
2011	HAMOT INFUSION CTR [HELATH SERV]		R.L. POLK & CO.	ERIE
2011	ERIE AREA CHAMBER OF COMMERCE [CHAMBERS OF COMMERCE]	100	R.L. POLK & CO.	ERIE
2011	GREYHOUND LINES [BUS LINES]	101	R.L. POLK & CO.	ERIE
2011	GREYHOUND PACKAGE XPRESS [DELIVERY SERV]	101	R.L. POLK & CO.	ERIE
2011	REP KATHY DAHLKEMPER [GOVERNMENT OFFICES-US]	102	R.L. POLK & CO.	ERIE
2011	VISITERIE [CONVENTION INFO BUREAUS]	103	R.L. POLK & CO.	ERIE
2011	JUNIOR LEAGUE OF ERIE INC [NONCLASSIFIED ESTABLISHMENTS]	104	R.L. POLK & CO.	ERIE
2011	MECHANICAL LEAGUE OF ERIE INC [NONCLASSIFIED ESTABLISHMENTS]	105	R.L. POLK & CO.	ERIE
2011	PORT AUTHORITY [STATE GOVERNMENT]	201	R.L. POLK & CO.	ERIE

City Directory Target Property Address

E Bayfront Pkwy, Erie, PA 16501

2005	ANDERSON AIRLINK [AIRPORT TRANSPORTATION SERV]		R.L. POLK & CO.	ERIE
2005	ERIE AREA CHAMBER OF COMMERCE [CHAMBERS OF COMMERCE]	100	R.L. POLK & CO.	ERIE
2005	CONGRESSMAN PHIL ENGLISH [GOVERNMENT OFFICES-US]	102	R.L. POLK & CO.	ERIE
2005	US CONGRESSMAN [GOVERNMENT OFFICES-US]	102	R.L. POLK & CO.	ERIE

220 E BAYFRONT PKWY

2019	DONJON SHIPBUILDING & REPAIR [SHIP BUILDERS & RPRERS]		R.L. POLK & CO.	ERIE
2014	DONJON SHIPBUILDING & REPAIR [SHIP BUILDERS & RPRERS]		R.L. POLK & CO.	ERIE
2014	ERIE S HIP BUILDING LLC [SHIP YARDS]		R.L. POLK & CO.	ERIE
2011	ERIE SHIP BUILDING LLC [SHIP BUILDERS & RPRERS]		R.L. POLK & CO.	ERIE

350 E BAYFRONT PKWY

2019	DA VITA ERIE DIALYSIS [DIALYSIS]	A	R.L. POLK & CO.	ERIE
2019	ASSOCIATED CLINICAL LABS [LABORATORIES-MEDICAL]	B	R.L. POLK & CO.	ERIE
2019	BAYVIEW NEPHROLOGY INC [PHYSICIANS & SURGEONS]	C	R.L. POLK & CO.	ERIE
2014	DA VITA ERIE DIALYSIS [DIALYSIS]	A	R.L. POLK & CO.	ERIE
2014	ASSOCIATED CLINICAL LABS [LABORATORIES-MEDICAL]	B	R.L. POLK & CO.	ERIE
2014	BARZYK PETER P	C	R.L. POLK & CO.	ERIE
2014	BAYVIEW NEPHROLOGY INC [PHYSICIANS & SURGEONS]	C	R.L. POLK & CO.	ERIE
2011	KOSENKO ALEXANDER		R.L. POLK & CO.	ERIE
2011	DA VITA ERIE DIALYSIS [DIALYSIS]	A	R.L. POLK & CO.	ERIE
2011	ASSOCIATED CLINICAL LABS [LABORATORIES-MEDICAL]	B	R.L. POLK & CO.	ERIE
2011	BARZYK PETER P	C	R.L. POLK & CO.	ERIE
2011	BAYVIEW NEPHROLOGY INC [PHYSICIANS & SURGEONS]	C	R.L. POLK & CO.	ERIE
2005	ASSOCIATED CLINICAL LABS [LABORATORIES-MEDICAL]		R.L. POLK & CO.	ERIE
2005	BARZYK PETER P		R.L. POLK & CO.	ERIE
2005	BAYVIEW NEPHROLOGY INC [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2005	GAMBRO HELATHCARE [CLINICS]	A	R.L. POLK & CO.	ERIE

City Directory Target Property Address

E Bayfront Pkwy, Erie, PA 16501

380 E BAYFRONT PKWY

2019	CLOVER TECHNOLOGIES GROUP LLC [COPYING-DUPLICATING MACH/SUPL]	R.L. POLK & CO.	ERIE
2019	X [ORE DOCK RD INTS]	R.L. POLK & CO.	ERIE
2014	ENVIRONMENTAL RECLAMATION SVC [RECYCLING CENTERS]	R.L. POLK & CO.	ERIE
2014	X [ORE DOCK RD INTS]	R.L. POLK & CO.	ERIE
2011	ENVIRONMENTAL RECLAMATION SVC [ENVRMNTL & ECOLGCL SERV]	R.L. POLK & CO.	ERIE
2011	ERS INC [TONER CARTRIDGE RECYCLING]	R.L. POLK & CO.	ERIE
2011	X [ORE DOCK RD INTS]	R.L. POLK & CO.	ERIE
2005	ENVIRONMENTAL RECLAMATION SVC [ENVRMNTL & ECOLGCL SERV]	R.L. POLK & CO.	ERIE
2005	X [ORE DOCK RD INTS]	R.L. POLK & CO.	ERIE

420 E BAYFRONT PKWY

2019	CLINA JOHN	R.L. POLK & CO.	ERIE
2019	SUNBURST ELECTRONICS INC [ELECTRONIC RESEARCH/DEVELOPMEN]	R.L. POLK & CO.	ERIE
2019	W [RAILROAD CROSSES]	R.L. POLK & CO.	ERIE
2019	X [E BAY DR INTS]	R.L. POLK & CO.	ERIE
2019	Y [PORT ACCESS RD INTS]	R.L. POLK & CO.	ERIE
2019	Z [END OF LISTINGS]	R.L. POLK & CO.	ERIE
2014	SUNBURST ELECTRONICS INC [ELECTRONIC RESEARCH/DEVELOPMEN]	R.L. POLK & CO.	ERIE
2014	W [RAILROAD CROSSES]	R.L. POLK & CO.	ERIE
2014	X [E BAY DR INTS]	R.L. POLK & CO.	ERIE
2014	Y [PORT ACCESS RD INTS]	R.L. POLK & CO.	ERIE
2014	Z [END OF LISTINGS]	R.L. POLK & CO.	ERIE
2011	SUNBURST ELECTRONICS INC [ELECTRONIC RESEARCH/DEVELOPMEN]	R.L. POLK & CO.	ERIE
2011	W [RAILROAD CROSSES]	R.L. POLK & CO.	ERIE
2011	X [E BAY DR INTS]	R.L. POLK & CO.	ERIE
2011	Y [PORT ACCESS RD INTS]	R.L. POLK & CO.	ERIE
2011	Z [END OF LISTINGS]	R.L. POLK & CO.	ERIE
2005	SUNBURST ELECTRONICS INC [ELECTRONIC RESEARCH/DEVELOPMEN]	R.L. POLK & CO.	ERIE
2005	W [RAILROAD CROSSES]	R.L. POLK & CO.	ERIE

City Directory Target Property Address

E Bayfront Pkwy, Erie, PA 16501

2005	X [E BAY DR INTS]	R.L. POLK & CO.	ERIE
2005	Y [PORT ACCESS RD INTS]	R.L. POLK & CO.	ERIE
2005	Z [END OF LISTINGS]	R.L. POLK & CO.	ERIE

ADDRESS NOT LISTED E BAYFRONT PKWY

2000		R.L. POLK & CO.	ERIE
1995		R.L. POLK & CO.	ERIE

Comment: E Bayfront Pkwy also listed as E Bay Front St. W Bayfront Pkwy/St is a continuation of E Bayfront Pkwy/St.

City Directory Target Property Address

Target Property:

*Holland St,
Erie, PA 16501*

Prepared For:
MS Consultants-Moon

Order #: 134806
Project #: 60-06808-03-05-02-0802

Date: 10/25/2019

City Directory Target Property Address

Holland St, Erie, PA 16501

1 HOLLAND ST

2019	STREET BEGINS	R.L. POLK & CO.	ERIE
2019	ERIE WESTERN PA PORT AUTHORITY [GOVERNMENT OFFICE STATE]	R.L. POLK & CO.	ERIE
2014	STREET BEGINS	R.L. POLK & CO.	ERIE
2014	TSR INC [COMPUTER PROGRAMMING SERV]	R.L. POLK & CO.	ERIE
2011	STREET BEGINS	R.L. POLK & CO.	ERIE
2005	STREET BEGINS	R.L. POLK & CO.	ERIE
2005	X [E BAYFRONT PKWY CONTINUES]	R.L. POLK & CO.	ERIE
2005	US CUSTOMS SVC [FEDERAL GOVERNMENT]	R.L. POLK & CO.	ERIE
2000	STREET BEGINS	R.L. POLK & CO.	ERIE
1995	STREET BEGINS	R.L. POLK & CO.	ERIE
1990	STREET BEGINS	R.L. POLK & CO.	ERIE
1984	STREET BEGINS	R.L. POLK & CO.	ERIE
1979-80	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1975	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1970	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1965	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1960	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1955	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1949-50	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1945	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1940	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1935	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1930	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1925-26	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1920	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE

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1915-16	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1909-10	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1909-10	X [100 FRONT ST INTS]	ATKINSON DIRECTORY CO	ERIE
1909-10	Y [200 SECOND ST INTS]	ATKINSON DIRECTORY CO	ERIE
1906-07	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1906-07	X [100 FRONT ST INTS]	ATKINSON DIRECTORY CO	ERIE
1906-07	Y [200 SECOND ST INTS]	ATKINSON DIRECTORY CO	ERIE
1901-02	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
<u>1 NO # HOLLAND ST</u>			
1995	ERIE MARINE	R.L. POLK & CO.	ERIE
1995	UNITED STATE BRIG NIGARA [HISTORICAL LANDMARKS]	R.L. POLK & CO.	ERIE
1995	X [BAYFRONT PKWY INTS]	R.L. POLK & CO.	ERIE
1995	Y [EAST 2ND ST INTS]	R.L. POLK & CO.	ERIE
1990	ERIE MARINE (DIV OF LITTON INDUSTRIES)	R.L. POLK & CO.	ERIE
1984	ERIE MARINE (DIV OF LITTON INDUSTRIES)	R.L. POLK & CO.	ERIE
1979-80	ERIE MARINE	ATKINSON DIRECTORY CO	ERIE
1975	ERIE MARINE	ATKINSON DIRECTORY CO	ERIE
1970	ERIE MARINE INC SUBSIDIARY OF LITTON INDUSTRIES	ATKINSON DIRECTORY CO	ERIE
1970	STEVEDORES FOR ERIE DIV CODAN COSNTN CO INC	ATKINSON DIRECTORY CO	ERIE
1965	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1965	NY PROD EXCH	ATKINSON DIRECTORY CO	ERIE
1960	PENNA R R CO (DOCK OFC)	ATKINSON DIRECTORY CO	ERIE
1960	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1960	NY PRODUCE EXCHANGE	ATKINSON DIRECTORY CO	ERIE

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3 HOLLAND ST

2019	BENEFLEX INC [EMPLOYEE BENEFIT CONSULTANTS]	R.L. POLK & CO.	ERIE
2019	BOETGER RETIREMENT PLAN SVC [ARCHITECTS]	R.L. POLK & CO.	ERIE

40 HOLLAND ST

2019	BAYFRONT CENTER MARITIME [SCHOOLS]	R.L. POLK & CO.	ERIE
2014	BAYFRONT CENTER MARITIME [SCHOOLS]	R.L. POLK & CO.	ERIE
2014	NONPROFIT PARTNERSHIP [SOCIAL SERV & WELFARE ORG]	R.L. POLK & CO.	ERIE
2011	BAYFRONT CENTER MARITIME [SCHOOLS]	R.L. POLK & CO.	ERIE
2011	NONPROFIT PARTNERSHIP [SOCIAL SERV & WELFARE ORG]	R.L. POLK & CO.	ERIE
2005	BAYFRONT CENTER MARITIME [SCHOOLS]	R.L. POLK & CO.	ERIE
2005	CHARTER SCHOOL OF EXCELLENCE [SCHOOLS]	R.L. POLK & CO.	ERIE
2005	X [RAILROAD CROSSES]	R.L. POLK & CO.	ERIE
2005	Y [E 2ND ST INTS]	R.L. POLK & CO.	ERIE

100 HOLLAND ST

1915-16	FRONT ST	ATKINSON DIRECTORY CO	ERIE
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101 HOLLAND ST

1984	VACANT	R.L. POLK & CO.	ERIE
1984	X [E 2D ST INTS]	R.L. POLK & CO.	ERIE
1979-80	VACANT	ATKINSON DIRECTORY CO	ERIE
1979-80	X [E 2D ST INTS]	ATKINSON DIRECTORY CO	ERIE
1975	VACANT	ATKINSON DIRECTORY CO	ERIE
1975	X [2D INTS]	ATKINSON DIRECTORY CO	ERIE
1970	VACANT	ATKINSON DIRECTORY CO	ERIE
1970	X [2D INTS]	ATKINSON DIRECTORY CO	ERIE
1965	BORNOFF PETER	ATKINSON DIRECTORY CO	ERIE
1965	X [2D INTS]	ATKINSON DIRECTORY CO	ERIE

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1960	BONDROFF PETER B	ATKINSON DIRECTORY CO	ERIE
1960	X [2D INTS]	ATKINSON DIRECTORY CO	ERIE
1955	BEILL PETER	ATKINSON DIRECTORY CO	ERIE
1955	X [2D INTS]	ATKINSON DIRECTORY CO	ERIE
1949-50	BELL PETER	ATKINSON DIRECTORY CO	ERIE
1949-50	PERRY BEER CO	ATKINSON DIRECTORY CO	ERIE
1949-50	X [2D INTS]	ATKINSON DIRECTORY CO	ERIE
1945	BEILL PETER	ATKINSON DIRECTORY CO	ERIE
1945	X [SECOND INTS]	ATKINSON DIRECTORY CO	ERIE
1940	BEILL PETER	ATKINSON DIRECTORY CO	ERIE
1940	X [SECOND INTS]	ATKINSON DIRECTORY CO	ERIE
1935	BEILL PETER	ATKINSON DIRECTORY CO	ERIE
1935	X [SECOND INTS]	ATKINSON DIRECTORY CO	ERIE
1930	DUSKUS MICHL	ATKINSON DIRECTORY CO	ERIE
1930	X [SECOND INTS]	ATKINSON DIRECTORY CO	ERIE
1925-26	DOSKUS JOHN	ATKINSON DIRECTORY CO	ERIE
1925-26	X [SECOND X INTS]	ATKINSON DIRECTORY CO	ERIE
1920	RINDFUSS BENJ H [SOFT DRINKS]	ATKINSON DIRECTORY CO	ERIE
1920	X [SECOND X INTS]	ATKINSON DIRECTORY CO	ERIE
1915-16	RINDFUS BENJ H [SALOON]	ATKINSON DIRECTORY CO	ERIE
<u>133 HOLLAND ST</u>			
2000	ROSS DERRICK M	R.L. POLK & CO.	ERIE
<u>153 HOLLAND ST</u>			
2000	MCNAUGHTON VELMA J	R.L. POLK & CO.	ERIE

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2000	X [E 2ND ST INTS]	R.L. POLK & CO.	ERIE
<u>200 HOLLAND ST</u>			
1915-16	SECOND ST	ATKINSON DIRECTORY CO	ERIE
1906-07	HARGARET HURLEY [WID GRO S&H]	ATKINSON DIRECTORY CO	ERIE
<u>201 HOLLAND ST</u>			
1925-26	VACANT	ATKINSON DIRECTORY CO	ERIE
1920	VACANT	ATKINSON DIRECTORY CO	ERIE
1915-16	SULLIVAN MARGARET [GROCER]	ATKINSON DIRECTORY CO	ERIE
1909-10	HURLEY MARGARET	ATKINSON DIRECTORY CO	ERIE
1909-10	HURLEY JOHN [LAB B]	ATKINSON DIRECTORY CO	ERIE
1906-07	JOHN HURLEY [LAB B]	ATKINSON DIRECTORY CO	ERIE
1906-07	PATRICK P MURPHY [SWTCHMN H]	ATKINSON DIRECTORY CO	ERIE
<u>202 HOLLAND ST</u>			
1979-80	NICER'S CAF?	ATKINSON DIRECTORY CO	ERIE
1979-80	NICER MARY I MRS	ATKINSON DIRECTORY CO	ERIE
1975	NICER'S CAF?	ATKINSON DIRECTORY CO	ERIE
1975	NICER MARY I MRS	ATKINSON DIRECTORY CO	ERIE
1970	NICER'S CAF?	ATKINSON DIRECTORY CO	ERIE
1965	NICERS CAF?	ATKINSON DIRECTORY CO	ERIE
1960	NICER'S CAF?	ATKINSON DIRECTORY CO	ERIE
1960	NICER MARY I MRS	ATKINSON DIRECTORY CO	ERIE
1955	NICERS CAF?	ATKINSON DIRECTORY CO	ERIE
1955	NICER MICHL	ATKINSON DIRECTORY CO	ERIE
1949-50	NICER CAF?	ATKINSON DIRECTORY CO	ERIE

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1949-50	NICER MICHL	ATKINSON DIRECTORY CO	ERIE
1945	NICER MICHL [RESTR]	ATKINSON DIRECTORY CO	ERIE
1940	NICER MICHL [RESTR]	ATKINSON DIRECTORY CO	ERIE
1935	NICER MICHL [RESTR]	ATKINSON DIRECTORY CO	ERIE
1930	NICER MICH;	ATKINSON DIRECTORY CO	ERIE
1925-26	APARTMENTS	ATKINSON DIRECTORY CO	ERIE
1920	MURPHY PATRICK P [CONFR]	ATKINSON DIRECTORY CO	ERIE
1915-16	MURPHY PATRICK P [CONFR]	ATKINSON DIRECTORY CO	ERIE
1909-10	MICHEL BROS [DRY GOODS]	ATKINSON DIRECTORY CO	ERIE
1909-10	MURPHY PATRICK P [SWITCHMAN H]	ATKINSON DIRECTORY CO	ERIE
1909-10	MURPHY DENNIS J [BRAKEMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	MURPHY CATHERINE [MILLINER H]	ATKINSON DIRECTORY CO	ERIE
1909-10	MURPHY MARY [MILLINER]	ATKINSON DIRECTORY CO	ERIE
1909-10	MURPHY ELIZABETH [MILLINER]	ATKINSON DIRECTORY CO	ERIE
1909-10	MURPHY NELLIE [STENOGER]	ATKINSON DIRECTORY CO	ERIE
1909-10	MURPHY MARGARET	ATKINSON DIRECTORY CO	ERIE
1906-07	DENNIS J MURPHY [BRKMN B]	ATKINSON DIRECTORY CO	ERIE
1906-07	CATHERINE MURPHY [MLNR B]	ATKINSON DIRECTORY CO	ERIE
1906-07	MARY MURPHY [MLNR B]	ATKINSON DIRECTORY CO	ERIE
1906-07	ELIZABETH MURPHY [STENOGR B]	ATKINSON DIRECTORY CO	ERIE
1906-07	NELLIE MURPHY [STENOGER B]	ATKINSON DIRECTORY CO	ERIE
1906-07	MARGARET MURPHY B	ATKINSON DIRECTORY CO	ERIE
1906-07	VACANT	ATKINSON DIRECTORY CO	ERIE

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207 HOLLAND ST

1984	CHRZANOWSKI BENJ	R.L. POLK & CO.	ERIE
1979-80	MC MINN IRENE	ATKINSON DIRECTORY CO	ERIE
1975	CHRZANOWSKI BENJ	ATKINSON DIRECTORY CO	ERIE
1975	CHRZANOWSKI WALTER P	ATKINSON DIRECTORY CO	ERIE
1970	CHRZANOWSKI BENJ	ATKINSON DIRECTORY CO	ERIE
1970	CHRZANOWSKI WALTER P	ATKINSON DIRECTORY CO	ERIE
1965	CHRZANOWSKI BENJ	ATKINSON DIRECTORY CO	ERIE
1965	CHRZANOWSKI WALTER P	ATKINSON DIRECTORY CO	ERIE
1960	CHRZANOWSKI BENJ	ATKINSON DIRECTORY CO	ERIE
1955	CHRZANOWSKI BENJ	ATKINSON DIRECTORY CO	ERIE
1949-50	CHRZANOWSKI BENJ	ATKINSON DIRECTORY CO	ERIE
1945	WILLIAMS BURTON	ATKINSON DIRECTORY CO	ERIE
1945	SEAWRIGHT MARY	ATKINSON DIRECTORY CO	ERIE
1940	KELLEY ROSCOE	ATKINSON DIRECTORY CO	ERIE
1940	SEAWRIGHT MARY	ATKINSON DIRECTORY CO	ERIE
1935	BLAKELY JOHN	ATKINSON DIRECTORY CO	ERIE
1935	SEAWRIGHT MARY	ATKINSON DIRECTORY CO	ERIE
1930	BLAKELY JOHN	ATKINSON DIRECTORY CO	ERIE
1930	SEAWRIGHT MARY	ATKINSON DIRECTORY CO	ERIE
1925-26	BLACK MABEL MRS	ATKINSON DIRECTORY CO	ERIE
1925-26	SEAWRIGHT MARY	ATKINSON DIRECTORY CO	ERIE
1920	SEAWRIGHT WM	ATKINSON DIRECTORY CO	ERIE

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1920	MCCARTHY EARL	ATKINSON DIRECTORY CO	ERIE
1915-16	SEAWRIGHT WM	ATKINSON DIRECTORY CO	ERIE
1915-16	NORTHRUP MADELINE E [DRESSMAKER]	ATKINSON DIRECTORY CO	ERIE
1909-10	SEAWRIGHT WM [COACHMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	NORTHUP MARTHA (WID LNCOLN)	ATKINSON DIRECTORY CO	ERIE
1909-10	NORTHRUP CLUDE [MACH B]	ATKINSON DIRECTORY CO	ERIE
1909-10	NORTHRUP MADELINE	ATKINSON DIRECTORY CO	ERIE
1909-10	SEAWRIGHT MARY [TCHR B]	ATKINSON DIRECTORY CO	ERIE
1909-10	THOMPSON MARGARET (WID PATRICK)	ATKINSON DIRECTORY CO	ERIE
1906-07	VACANT	ATKINSON DIRECTORY CO	ERIE
1906-07	AMBROSE MMULLIGAN [BARBER]	ATKINSON DIRECTORY CO	ERIE
1901-02	KANE JAMES [BLKSMTH H]	ATKINSON DIRECTORY CO	ERIE
1901-02	KANE THOS [OLD GENT B]	ATKINSON DIRECTORY CO	ERIE
1901-02	MEYERS MELISSA MRS [WID B]	ATKINSON DIRECTORY CO	ERIE
<u>208 HOLLAND ST</u>			
1970	CZPEROWSKY FRANK	ATKINSON DIRECTORY CO	ERIE
1965	VACANT	ATKINSON DIRECTORY CO	ERIE
1960	RODGERS MAE E MRS	ATKINSON DIRECTORY CO	ERIE
1955	SMITH ADAM S	ATKINSON DIRECTORY CO	ERIE
1949-50	SMITH ADAM S	ATKINSON DIRECTORY CO	ERIE
1945	CLOUSER A KENNETH	ATKINSON DIRECTORY CO	ERIE
1940	CLOUSER A KENNETH	ATKINSON DIRECTORY CO	ERIE
1935	VACANT	ATKINSON DIRECTORY CO	ERIE

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1930	MCKINNEY MARY E MRS	ATKINSON DIRECTORY CO	ERIE
1925-26	MCKINNEY MARY E MRS	ATKINSON DIRECTORY CO	ERIE
1920	MCKINNEY MARY E MRS	ATKINSON DIRECTORY CO	ERIE
1915-16	MCKINNEY MRS MARY	ATKINSON DIRECTORY CO	ERIE
1909-10	AUBREY ALMOND G H	ATKINSON DIRECTORY CO	ERIE
1909-10	ANDERSON JOHN LAB	ATKINSON DIRECTORY CO	ERIE
1909-10	SEARS JESSE F [LAB B]	ATKINSON DIRECTORY CO	ERIE
1909-10	HART PATRICK [LAB B]	ATKINSON DIRECTORY CO	ERIE
1909-10	FULLER CLARENCE [LAB B]	ATKINSON DIRECTORY CO	ERIE
1909-10	HEDLUND OLAF [PAINTER B]	ATKINSON DIRECTORY CO	ERIE
1906-07	ALMOND G AUBREY	ATKINSON DIRECTORY CO	ERIE
1906-07	JOHN ANDERSON [LAB B]	ATKINSON DIRECTORY CO	ERIE

209 HOLLAND ST

1984	CEBERAL PALSY GROUP HOME	R.L. POLK & CO.	ERIE
1984	ST POLLACK ROBT	R.L. POLK & CO.	ERIE
1979-80	VACANT	ATKINSON DIRECTORY CO	ERIE
1975	WASIELEWSKI RONALD	ATKINSON DIRECTORY CO	ERIE
1970	NO RETURN	ATKINSON DIRECTORY CO	ERIE
1965	KOENIG THOS	ATKINSON DIRECTORY CO	ERIE
1960	BILENTNIKOFF BETTY MRS	ATKINSON DIRECTORY CO	ERIE
1955	BILENNIKOFF GILBERT	ATKINSON DIRECTORY CO	ERIE
1949-50	BILLETNIKOFF GILBERT	ATKINSON DIRECTORY CO	ERIE
1945	STEINBAUGH JOHN	ATKINSON DIRECTORY CO	ERIE
1940	STEINBAUGH JOHN W	ATKINSON DIRECTORY CO	ERIE

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1935	STEINBAUGH JOHN	ATKINSON DIRECTORY CO	ERIE
1930	VACANT	ATKINSON DIRECTORY CO	ERIE
1925-26	WELSH THOS J	ATKINSON DIRECTORY CO	ERIE
1920	WELSH THOMAS	ATKINSON DIRECTORY CO	ERIE
1915-16	WELSH THOMAS J	ATKINSON DIRECTORY CO	ERIE
1909-10	WELSH THOMAS J [FISHERMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	HAYES KITTIE A [CLK]	ATKINSON DIRECTORY CO	ERIE
1906-07	TIMOTHY JJ LYNCH [BRTNDR H]	ATKINSON DIRECTORY CO	ERIE
<u>210 HOLLAND ST</u>			
1970	STAHON CHARLES	ATKINSON DIRECTORY CO	ERIE
1970	BOLASH MARGT L MRS	ATKINSON DIRECTORY CO	ERIE
1965	ROGERS MAE E MRS	ATKINSON DIRECTORY CO	ERIE
1960	SCHNEIDER EDW B [SPORTING GDS]	ATKINSON DIRECTORY CO	ERIE
1960	ALLEN MAZIE MRS	ATKINSON DIRECTORY CO	ERIE
1955	SCHNIEDER EDW B [SPORTING GDS]	ATKINSON DIRECTORY CO	ERIE
1955	ALLEN MAZIE MRS	ATKINSON DIRECTORY CO	ERIE
1949-50	SCHNIEDER EDW B [SPRTING GDS]	ATKINSON DIRECTORY CO	ERIE
1949-50	ALLEN NEIL J	ATKINSON DIRECTORY CO	ERIE
1945	SCHNEIDER EDW B [MOTOR BOATS]	ATKINSON DIRECTORY CO	ERIE
1945	ALLEN NEIL J	ATKINSON DIRECTORY CO	ERIE
1940	SCHNEIDER EDW B [MOTOR BOATS]	ATKINSON DIRECTORY CO	ERIE
1940	ALLEN NEIL J	ATKINSON DIRECTORY CO	ERIE
1935	SCHNEIDER EDW B [MOTOR BOATS]	ATKINSON DIRECTORY CO	ERIE

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1935	WALLACE EDWIN	ATKINSON DIRECTORY CO	ERIE
1930	ALLEN NEIL J	ATKINSON DIRECTORY CO	ERIE
1930	SCHNEIDER EDW B [MOTOR BOATS]	ATKINSON DIRECTORY CO	ERIE
1925-26	MCCARTHY DANIEL [GRO]	ATKINSON DIRECTORY CO	ERIE
1920	MCCARTHY DAN M [CONFR]	ATKINSON DIRECTORY CO	ERIE
1915-16	MCCARTHY DANIEL M [GROCER]	ATKINSON DIRECTORY CO	ERIE
1915-16	MCCARTHY MABEL [MUSIC TCHR]	ATKINSON DIRECTORY CO	ERIE
1909-10	MCCARTHY DANIEL [GRO S & H]	ATKINSON DIRECTORY CO	ERIE
1909-10	MCCARTHY EARL [STUDENT B]	ATKINSON DIRECTORY CO	ERIE
1909-10	MCCARTHY MABEL [STUDENT B]	ATKINSON DIRECTORY CO	ERIE
1906-07	DANIEL MCCARTHY [GRO S & H]	ATKINSON DIRECTORY CO	ERIE

211 HOLLAND ST

1984	O CONNOR BERNARD	R.L. POLK & CO.	ERIE
1979-80	PEGANOFF JOSEPH W	ATKINSON DIRECTORY CO	ERIE
1975	PEGANOFF JOSEPH W	ATKINSON DIRECTORY CO	ERIE
1970	PEGANOFF JOSEPH W	ATKINSON DIRECTORY CO	ERIE
1965	PEGANOFF JOS W	ATKINSON DIRECTORY CO	ERIE
1960	PEGANOFF JOS W	ATKINSON DIRECTORY CO	ERIE
1955	PEGANOFF JOS W	ATKINSON DIRECTORY CO	ERIE
1949-50	PEGANOFF JOS W	ATKINSON DIRECTORY CO	ERIE
1945	CHRISTENSEN CHRIST	ATKINSON DIRECTORY CO	ERIE
1940	CHRISTENSEN CHRIST	ATKINSON DIRECTORY CO	ERIE
1935	CHRISTENSEN CHRISTIAN	ATKINSON DIRECTORY CO	ERIE

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1930	CHRISTENSEN CHRISTIAN	ATKINSON DIRECTORY CO	ERIE
1925-26	CHRISTIANSEN CHRISTIAN	ATKINSON DIRECTORY CO	ERIE
1920	CHRISTENSEN CHRIST	ATKINSON DIRECTORY CO	ERIE
1915-16	CHRISTENSEN CHRIST	ATKINSON DIRECTORY CO	ERIE
1909-10	FLANSBURG FRANK [CAPT H]	ATKINSON DIRECTORY CO	ERIE
1909-10	FLANSBURG ELLEN (WID PARKER)	ATKINSON DIRECTORY CO	ERIE
1906-07	FRANK FLANSBURG E F D	ATKINSON DIRECTORY CO	ERIE
1906-07	ELLEN FLANSBURG	ATKINSON DIRECTORY CO	ERIE
<u>212 HOLLAND ST</u>			
1979-80	LITOWKIN MICHL	ATKINSON DIRECTORY CO	ERIE
1975	MISHNEKOFF PAUL	ATKINSON DIRECTORY CO	ERIE
1970	BARNEY ANNA M MRS	ATKINSON DIRECTORY CO	ERIE
1965	BARNEY JOHN	ATKINSON DIRECTORY CO	ERIE
1955	MCCRAY KENNETH F	ATKINSON DIRECTORY CO	ERIE
1949-50	ORLOFF FRANK	ATKINSON DIRECTORY CO	ERIE
1945	PANCEREV PETER	ATKINSON DIRECTORY CO	ERIE
1940	PANCEREV PETER	ATKINSON DIRECTORY CO	ERIE
1935	PANCEREV PETER	ATKINSON DIRECTORY CO	ERIE
1930	WELSH RICHD J	ATKINSON DIRECTORY CO	ERIE
1925-26	SIEBERT WM J	ATKINSON DIRECTORY CO	ERIE
1915-16	SEIBERT WM J	ATKINSON DIRECTORY CO	ERIE
1909-10	GOOLEY THOMAS [LAB B]	ATKINSON DIRECTORY CO	ERIE
1909-10	GOOLEY THOMAS [ENGR B]	ATKINSON DIRECTORY CO	ERIE

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1909-10	GOOLEY MICHAEL A [SWITCHMAN B]	ATKINSON DIRECTORY CO	ERIE
1909-10	GOOLEY AGNES M [CASHIER]	ATKINSON DIRECTORY CO	ERIE
1909-10	CURRY MARGARET (WID WM)	ATKINSON DIRECTORY CO	ERIE
1909-10	GOOLEY MAY [B]	ATKINSON DIRECTORY CO	ERIE
1906-07	THOMAS GOOLEY [LAB H]	ATKINSON DIRECTORY CO	ERIE
1906-07	THOMAS L GOOLEY [ENGR B]	ATKINSON DIRECTORY CO	ERIE
1906-07	MICHAEL A GOOLEY [CONDR B]	ATKINSON DIRECTORY CO	ERIE
1906-07	MAY E GOOLEY [STENOIGR]	ATKINSON DIRECTORY CO	ERIE
1906-07	AGNES A GOOLEY [CASHR B]	ATKINSON DIRECTORY CO	ERIE
1906-07	MARGARET CURRY [WID B]	ATKINSON DIRECTORY CO	ERIE

213 HOLLAND ST

1984	HARDINGER JOHN W	R.L. POLK & CO.	ERIE
1979-80	HARDINGER JOHN W	ATKINSON DIRECTORY CO	ERIE
1975	LONG REX R	ATKINSON DIRECTORY CO	ERIE
1970	ZELGOWSKI MARY MRS	ATKINSON DIRECTORY CO	ERIE
1965	ZELGOWSKI JOHN	ATKINSON DIRECTORY CO	ERIE
1960	ZELGOWSKI JOHN	ATKINSON DIRECTORY CO	ERIE
1955	ZELGOWSKI JOHN	ATKINSON DIRECTORY CO	ERIE
1949-50	ZELGOWSKI JOHN	ATKINSON DIRECTORY CO	ERIE
1945	ZIELAGOSKI JOHN	ATKINSON DIRECTORY CO	ERIE
1940	PIETRAS MARY MRS	ATKINSON DIRECTORY CO	ERIE
1935	MANDOW ISABELLE MRS	ATKINSON DIRECTORY CO	ERIE
1930	VACANT	ATKINSON DIRECTORY CO	ERIE

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1925-26	CAHILL MARY	ATKINSON DIRECTORY CO	ERIE
1920	CAHILL MARY MRS	ATKINSON DIRECTORY CO	ERIE
1920	NEWELL JAMES	ATKINSON DIRECTORY CO	ERIE
1915-16	CAHILL MARY	ATKINSON DIRECTORY CO	ERIE
1909-10	BURKE THOMAS C [MOTORMAN H]	ATKINSON DIRECTORY CO	ERIE
1909-10	CAHILL MARY	ATKINSON DIRECTORY CO	ERIE
1906-07	JOHN J SULLIVAN [SAL H]	ATKINSON DIRECTORY CO	ERIE
1906-07	MARY CAHILL [DOM]	ATKINSON DIRECTORY CO	ERIE
1901-02	CAHILL MARY MISS [HSKPR]	ATKINSON DIRECTORY CO	ERIE
1901-02	SULLIVAN MICHAEL [LAB B]	ATKINSON DIRECTORY CO	ERIE
1901-02	CROIN MICHAEL [LAB]	ATKINSON DIRECTORY CO	ERIE
1901-02	DRISCOLL TIMOTHY [LAB]	ATKINSON DIRECTORY CO	ERIE

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2019	ENGLISH USA F MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	HAMOT INFUSION CTR [HEALTH SERV]	R.L. POLK & CO.	ERIE
2019	UPMC HAMOT WOUND CLINIC [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2014	BALLENGEE GREGORY B	R.L. POLK & CO.	ERIE
2014	HAMOT INFUSION CTR [HEALTH SERV]	R.L. POLK & CO.	ERIE
2014	HARBORVIEW INTERNEL MEDICINE [PHYSICIANS 7 SURGEONS]	R.L. POLK & CO.	ERIE
2014	LAKE ERIE WOMEN'S CTR [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2014	MALEC ROSEMARIE [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2014	MC GRATH LYNN B [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2014	STRAUB LINDA L [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	KNIFE CARRIE S [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE

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2011	LAKE ERIE WOMEN'S CTR [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2011	MALEC ROSEMARIE [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	MC GRATH LYNN B [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	STRAUB LINDA L [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2005	BALLENGEE GREGORY B	R.L. POLK & CO.	ERIE
2005	LAKE ERIE WOMEN'S CTR [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	X [E 3RD ST INTS]	R.L. POLK & CO.	ERIE
2000	BALLANGEE GREGORY B	R.L. POLK & CO.	ERIE
2000	DAIL E M	R.L. POLK & CO.	ERIE
2000	THOMAS JAMES JR	R.L. POLK & CO.	ERIE
2000	X [E 3RD ST INTS]	R.L. POLK & CO.	ERIE
1984	LUCZYNSKI FRANK	R.L. POLK & CO.	ERIE
1984	X [E 3D ST INTS]	R.L. POLK & CO.	ERIE
1979-80	LUCZYNSKI FRANK	ATKINSON DIRECTORY CO	ERIE
1979-80	VACANT	ATKINSON DIRECTORY CO	ERIE
1975	LUCZYNSKI FRANK	ATKINSON DIRECTORY CO	ERIE
1975	BSECKI DIANE M MRS	ATKINSON DIRECTORY CO	ERIE
1970	LUCYNSKI FRANK	ATKINSON DIRECTORY CO	ERIE
1970	OSECKI LEWIS	ATKINSON DIRECTORY CO	ERIE
1965	LUCZYNSKI FRANK	ATKINSON DIRECTORY CO	ERIE
1960	SHINGLEDECKER FAYE MRS	ATKINSON DIRECTORY CO	ERIE
1960	MATTHEWS JOHN A	ATKINSON DIRECTORY CO	ERIE
1960	LUCZINSKI FRANK	ATKINSON DIRECTORY CO	ERIE
1955	CAREY DANA	ATKINSON DIRECTORY CO	ERIE
1955	MATTHEWS JOHN A	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

Holland St, Erie, PA 16501

1949-50	VISCIO CATH MRS	ATKINSON DIRECTORY CO	ERIE
1949-50	CAREY DANA	ATKINSON DIRECTORY CO	ERIE
1945	DISHINGER GEO F	ATKINSON DIRECTORY CO	ERIE
1945	MARSH LEON	ATKINSON DIRECTORY CO	ERIE
1940	DISHINGER GEO F	ATKINSON DIRECTORY CO	ERIE
1935	DISHINGER GEO F	ATKINSON DIRECTORY CO	ERIE
1930	SULLIVAN HUMPHREY	ATKINSON DIRECTORY CO	ERIE
1925-26	SULLIVAN HUMPHREY	ATKINSON DIRECTORY CO	ERIE
1920	SULLIVAN HUMPHREY	ATKINSON DIRECTORY CO	ERIE
1915-16	SULLIVAN HUMPHREY	ATKINSON DIRECTORY CO	ERIE
1915-16	SULLIVAN ELIZABETH [DRESSMKR]	ATKINSON DIRECTORY CO	ERIE
1909-10	SULLIVAN HUMPHREY [ASSESSOR]	ATKINSON DIRECTORY CO	ERIE
1909-10	SULLIVAN THOMAS J [APPR]	ATKINSON DIRECTORY CO	ERIE
1909-10	SULLIVAN MINNIE J	ATKINSON DIRECTORY CO	ERIE
1909-10	LEARY NELLIE [DRESSMKR]	ATKINSON DIRECTORY CO	ERIE
1906-07	PATRICK STAPLETON [LAB B]	ATKINSON DIRECTORY CO	ERIE
1906-07	JOHN E STAPLETON [LAB B]	ATKINSON DIRECTORY CO	ERIE
1906-07	MARY E STAPLETON [STENOGER]	ATKINSON DIRECTORY CO	ERIE
1901-02	BUCHNER WM [BUTCHER]	ATKINSON DIRECTORY CO	ERIE
1901-02	BUCHNER HENRY [LAKE ENG]	ATKINSON DIRECTORY CO	ERIE
1901-02	BUCHNER ETTA MISS [FORELADY]	ATKINSON DIRECTORY CO	ERIE
1901-02	BUCHNER CORNELLA MISS	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

Holland St, Erie, PA 16501

216 HOLLAND ST

1979-80	GUNTHER DONNA J MRS	ATKINSON DIRECTORY CO	ERIE
1975	VACANT	ATKINSON DIRECTORY CO	ERIE
1970	EVERGREEN LANDSCAPING SERVICE	ATKINSON DIRECTORY CO	ERIE
1970	BLACK HOWARD P	ATKINSON DIRECTORY CO	ERIE
1965	SHINGLEDECKER PEGGY A MRS	ATKINSON DIRECTORY CO	ERIE
1960	PROKOP RUBAN	ATKINSON DIRECTORY CO	ERIE
1955	PRONOP RUBAN	ATKINSON DIRECTORY CO	ERIE
1949-50	LEONOFF KATH L MRS	ATKINSON DIRECTORY CO	ERIE
1949-50	PUCHINSKY ALEX	ATKINSON DIRECTORY CO	ERIE
1945	LEONOFF KATH MRS	ATKINSON DIRECTORY CO	ERIE
1940	MASCHARKA MICHL J	ATKINSON DIRECTORY CO	ERIE
1935	MANGO JOHN B	ATKINSON DIRECTORY CO	ERIE
1930	PANCEREV PETER	ATKINSON DIRECTORY CO	ERIE
1925-26	PANCEREV PETER	ATKINSON DIRECTORY CO	ERIE
1920	PANCROO PARAMON	ATKINSON DIRECTORY CO	ERIE
1920	BRIGHT ALICE	ATKINSON DIRECTORY CO	ERIE
1915-16	STEINMETZ CHARLES G	ATKINSON DIRECTORY CO	ERIE
1909-10	STEINMETZ CHARLES G [TAILOR H]	ATKINSON DIRECTORY CO	ERIE
1909-10	STEINMETZ PHILIP [LAB B]	ATKINSON DIRECTORY CO	ERIE
1906-07	CHARLES STEINMETZ [TAILOR H]	ATKINSON DIRECTORY CO	ERIE
1906-07	PHILIP STEINMETZ [TINNER B]	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

Holland St, Erie, PA 16501

219 HOLLAND ST

1901-02	CAREY RICHARD [WINE CLK]	ATKINSON DIRECTORY CO	ERIE
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227 HOLLAND ST

2014	CHR OF HOLY TRINITY [CHURCHES]	R.L. POLK & CO.	ERIE
2011	CHURC OF HOLY TRINITY [CHURCHES]	R.L. POLK & CO.	ERIE

231 HOLLAND ST

1995	RUSSIAN OLD BELIEVERS CHURCH OF THE HOLY TRINITY	R.L. POLK & CO.	ERIE
1995	X [E 3D ST INTS]	R.L. POLK & CO.	ERIE
1990	RUSSIAN OLD BELIEVERS CHURCH OF THE HOLY TRINITY	R.L. POLK & CO.	ERIE
1990	X [E 2D ST INTS]	R.L. POLK & CO.	ERIE
1990	Y [E 3D ST INTS]	R.L. POLK & CO.	ERIE

301 HOLLAND ST

2019	POICHALCO MADELINE M	R.L. POLK & CO.	ERIE
2014	NO CURRENT LISTING	R.L. POLK & CO.	ERIE
2011	NO CURRENT LISTING	R.L. POLK & CO.	ERIE
2005	NO CURRENT LISTING	R.L. POLK & CO.	ERIE
2000	NOT VERIFIED	R.L. POLK & CO.	ERIE
1995	EUELL D	R.L. POLK & CO.	ERIE
1990	VACANT	R.L. POLK & CO.	ERIE
1984	ADAM PAUL	R.L. POLK & CO.	ERIE

305 HOLLAND ST

2019	NO CURRENT LISTING	R.L. POLK & CO.	ERIE
2014	BOWLES KATELYN	R.L. POLK & CO.	ERIE
2011	WILBUR ASHLEY	R.L. POLK & CO.	ERIE
2005	COWFER HEATHER	R.L. POLK & CO.	ERIE
2000	LOGUE ANTHONY A	R.L. POLK & CO.	ERIE
1995	VACANT (2 HSES)	R.L. POLK & CO.	ERIE
1990	EUELL D	R.L. POLK & CO.	ERIE

323 HOLLAND ST

2019	HARRIS ALEX	R.L. POLK & CO.	ERIE
2014	HARROS ALEX	R.L. POLK & CO.	ERIE

City Directory Target Property Address

Holland St, Erie, PA 16501

2011	DEWEY'S CAR CARE [AUTO DETAIL & CLEAN UP SERV]		R.L. POLK & CO.	ERIE
2000	BAY FRONT SIGNS [SIGNS ADV SPLTIES]		R.L. POLK & CO.	ERIE
1995	VACANT (2 HSES)		R.L. POLK & CO.	ERIE
1990	AL'S SIGN SERVICE		R.L. POLK & CO.	ERIE
<u>326 HOLLAND ST</u>				
1995	HELLMAN CHARLES A & LEONA M		R.L. POLK & CO.	ERIE
1990	HELMAN CHARLES A		R.L. POLK & CO.	ERIE
<u>330 HOLLAND ST</u>				
2005	SWEARMAN D		R.L. POLK & CO.	ERIE
2005	SMITH KELLY D	1	R.L. POLK & CO.	ERIE
2000	MAILLE ANDREW J [INSURANCE AGTS]		R.L. POLK & CO.	ERIE
2000	SEIB JENNIFER L		R.L. POLK & CO.	ERIE
1995	SITTER RAYMOND INSURANCE AGENCY		R.L. POLK & CO.	ERIE
1995	MAILLE ANDREW J INSURANCE AGENCY [INS]		R.L. POLK & CO.	ERIE
1990	INTERNATIONAL INSTITUTE OF ERIE INC [DAY CARE]		R.L. POLK & CO.	ERIE
1990	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
<u>332 HOLLAND ST</u>				
2019	FUCCI RODNEY J		R.L. POLK & CO.	ERIE
2019	PFEFFER DOUGLAS F		R.L. POLK & CO.	ERIE
2019	PFEFFER INSURANCE AGENCY INC [INSURANCE]		R.L. POLK & CO.	ERIE
2019	NO CURRENT LISTING	1	R.L. POLK & CO.	ERIE
2014	PFEFFER DOUGLAS F		R.L. POLK & CO.	ERIE
2014	PFEFFER INSURANCE [INSURANCE]		R.L. POLK & CO.	ERIE
2011	PFEFFER DOUGLAS F		R.L. POLK & CO.	ERIE
2011	PFEFFER INSURANCE [INSURANCE]		R.L. POLK & CO.	ERIE
2005	HILLING ALAN		R.L. POLK & CO.	ERIE
2005	PFEFFER INSURANCE [INSURANCE]		R.L. POLK & CO.	ERIE
2005	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
2000	HILLING ALAN S		R.L. POLK & CO.	ERIE
2000	LINDSAY MARSHALL G		R.L. POLK & CO.	ERIE
2000	PFEFFER INSURANCE AGENCY [INSURANCE AGTS]		R.L. POLK & CO.	ERIE

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Holland St, Erie, PA 16501

2000	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
1995	PFEFFER INSURANCE AGENCY		R.L. POLK & CO.	ERIE
1995	VACANT	1	R.L. POLK & CO.	ERIE
1995	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
<u>402 HOLLAND ST</u>				
2019	NO CURRENT LISTING (2 HSES)		R.L. POLK & CO.	ERIE
2011	NO CURRENT LISTING		R.L. POLK & CO.	ERIE
1995	VACANT		R.L. POLK & CO.	ERIE
1990	ROTH		R.L. POLK & CO.	ERIE
<u>404 HOLLAND ST</u>				
2014	NO CURRENT LISTING		R.L. POLK & CO.	ERIE
2005	PENA PEDRO		R.L. POLK & CO.	ERIE
2005	PENA ANDRES		R.L. POLK & CO.	ERIE
2000	AGRESSTI DAVID		R.L. POLK & CO.	ERIE
<u>202 1/2 HOLLAND ST</u>				
1920	VACANT		ATKINSON DIRECTORY CO	ERIE
1915-16	VACANT		ATKINSON DIRECTORY CO	ERIE

Comment: No coverage available for Erie prior to 1901.

City Directory Target Property Address

Target Property:

*Sasafrass St Ext,
Erie, PA 16501*

Prepared For:
MS Consultants-Moon

Order #: 134806

Project #: 60-06808-03-05-02-0802

Date: 10/25/2019

City Directory Target Property Address

Sasafrass St Ext, Erie, PA 16501

1 SASAFRASS ST EXT

2019	STREET NOT LISTED	R.L. POLK & CO.	ERIE
2014	STREET NOT LISTED	R.L. POLK & CO.	ERIE

Comment: No coverage available for Erie prior to 1901.

City Directory Target Property Address

Target Property:

*State St,
Erie, PA 16501*

Prepared For:
MS Consultants-Moon

Order #: 134806
Project #: 60-06808-03-05-02-0802

Date: 10/25/2019

City Directory Target Property Address

State St, Erie, PA 16501

1 STATE ST

2019	STREET BEGINS		R.L. POLK & CO.	ERIE
2016	STREET BEGINS		R.L. POLK & CO.	ERIE
2011	STREET BEGINS		R.L. POLK & CO.	ERIE
2005	STREET BEGINS		R.L. POLK & CO.	ERIE
2000	STREET BEGINS		R.L. POLK & CO.	ERIE
1995	STREET BEGINS		R.L. POLK & CO.	ERIE
1995	X [PRESQUE ISLE BAY INTS]		R.L. POLK & CO.	ERIE
1995	PUBLIC DOCK	FT	R.L. POLK & CO.	ERIE
1995	PUBLIC STEAMSHIP LANDING		R.L. POLK & CO.	ERIE
1995	DOCK CONCESSION		R.L. POLK & CO.	ERIE
1995	LITTLE TOOT-JULIE MARIE FERRY SERVICE		R.L. POLK & CO.	ERIE
1995	SMITH'S BAIT STAND		R.L. POLK & CO.	ERIE
1995	X [BAYFRONT PKWY INTS]		R.L. POLK & CO.	ERIE
1990	STREET BEGINS		R.L. POLK & CO.	ERIE
1990	PUBLIC DOCK	FT	R.L. POLK & CO.	ERIE
1990	POBLIC STEAMSHIP LANDING		R.L. POLK & CO.	ERIE
1990	DOCK CONCESSIN		R.L. POLK & CO.	ERIE
1990	LITTLE TOOT JULIE MARIE FERRY SERVICE		R.L. POLK & CO.	ERIE
1990	SMITHS BAIT STAND		R.L. POLK & CO.	ERIE
1984	STREET BEGINS		R.L. POLK & CO.	ERIE
1979-80	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1975	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1975	SMUGGLER'S INN (SMUGGLERS LIMIT CORP)		ATKINSON DIRECTORY CO	ERIE
1970	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1970	TONY'S RESTAURANT & MARINE BAR		ATKINSON DIRECTORY CO	ERIE
1965	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1960	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

State St, Erie, PA 16501

1955	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1949-50	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1945	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1940	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1935	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1930	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1925-26	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1920	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1915-16	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1909-10	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1906-07	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE
1901-02	STREET BEGINS		ATKINSON DIRECTORY CO	ERIE

1 NO # STATE ST

1984	PUBLIC DOCK	FT	R.L. POLK & CO.	ERIE
1984	PUBLIC STEAMSHIP LANDING		R.L. POLK & CO.	ERIE
1984	DOCK CONCESSION		R.L. POLK & CO.	ERIE
1984	LITTLE TOOT JULIE MARIE FERRY SERVICE		R.L. POLK & CO.	ERIE
1984	SMTH'S BAIT STAND		R.L. POLK & CO.	ERIE
1979-80	X [FT] PUBLIC DOCK		ATKINSON DIRECTORY CO	ERIE
1979-80	PUBLIC STEAMSHIP LANDING		ATKINSON DIRECTORY CO	ERIE
1979-80	VACANT		ATKINSON DIRECTORY CO	ERIE
1979-80	LITTLE TOOT-JULIE MARIE FERRY SERVICE		ATKINSON DIRECTORY CO	ERIE
1979-80	SMITH'S BAIT STAND		ATKINSON DIRECTORY CO	ERIE
1975	X [FT] PUBLIC DOCK		ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

State St, Erie, PA 16501

1975	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1975	NOLAN FRANCIS J FERRY & CHARTER SERVICE	ATKINSON DIRECTORY CO	ERIE
1975	LITTLE TOOT-JULIE MARIE FERRY SERVICE	ATKINSON DIRECTORY CO	ERIE
1975	SMITH'S BAIT STAND	ATKINSON DIRECTORY CO	ERIE
1970	X [FT] PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1970	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1970	NOLAN FRANCIS J FERRY & CHARTER SERVICE	ATKINSON DIRECTORY CO	ERIE
1970	SMITH'S BAIT STAND	ATKINSON DIRECTORY CO	ERIE
1965	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1965	NOLAN FRANCIS J FERRY & CHARTER SERV	ATKINSON DIRECTORY CO	ERIE
1965	SMITH'S BAIT STAND	ATKINSON DIRECTORY CO	ERIE
1960	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1960	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1960	SMILEY FISH CO	ATKINSON DIRECTORY CO	ERIE
1955	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1955	PUBLIC STEAMPSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1955	GREAT LAKES TOWING	ATKINSON DIRECTORY CO	ERIE
1955	SMILEY FISH CO	ATKINSON DIRECTORY CO	ERIE
1955	TONY'S FISH LUNCH & RESTR	ATKINSON DIRECTORY CO	ERIE
1955	NOLAN J W & SON [MARINE CONTRS]	ATKINSON DIRECTORY CO	ERIE
1955	LUND HERMAN [BOAT BLDR]	ATKINSON DIRECTORY CO	ERIE
1955	SMITH'S LIVE BAIT	ATKINSON DIRECTORY CO	ERIE
1955	MCALLISTER R D & SON [BOATS]	ATKINSON DIRECTORY CO	ERIE

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State St, Erie, PA 16501

1955	ERIE MARINE SUP CO	ATKINSON DIRECTORY CO	ERIE
1955	ERIE FISH CO [WHOL]	ATKINSON DIRECTORY CO	ERIE
1955	BARCELONA FISH CO [WHOL]	ATKINSON DIRECTORY CO	ERIE
1949-50	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1949-50	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1949-50	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1949-50	SMILEY FISH CO	ATKINSON DIRECTORY CO	ERIE
1949-50	X [ES] TONY'S FISH LUNCH & RESTR	ATKINSON DIRECTORY CO	ERIE
1949-50	NOLAN J W & SON [MARINE CONTRS]	ATKINSON DIRECTORY CO	ERIE
1949-50	PAASCH BROS [BOAT BLDRS]	ATKINSON DIRECTORY CO	ERIE
1949-50	MCALLISTER R D & SON [SHIP CHANDLERS]	ATKINSON DIRECTORY CO	ERIE
1949-50	X [WS] DEARBECK & CHRISTENSEN [SHIP CHANDLERS]	ATKINSON DIRECTORY CO	ERIE
1949-50	ERIE FISH CO [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1949-50	BARCELONA FISH CO [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1945	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1945	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1945	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1945	SMILEY FISH CO	ATKINSON DIRECTORY CO	ERIE
1945	CAP'S BOAT LIVERY	ATKINSON DIRECTORY CO	ERIE
1945	X [ES] TONY'S FISH LUNCH & RESTAURANT	ATKINSON DIRECTORY CO	ERIE
1945	PALASCH BROS [BOAT BLDRS]	ATKINSON DIRECTORY CO	ERIE
1945	MCALLISTER R D & SON [SHIP CHANDLERS]	ATKINSON DIRECTORY CO	ERIE
1945	X [WS] DEARBECK & CHRISTENSEN [SHIP CHANDLERS]	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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1945	ERIE FISH CO [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1945	BARCELONA FISH CO [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1945	RALPH FISHERIES	ATKINSON DIRECTORY CO	ERIE
1945	DAILEY'S RESTAURANT	ATKINSON DIRECTORY CO	ERIE
1945	PENNA S & S BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1945	SMITH GEO F [FISH BAIT]	ATKINSON DIRECTORY CO	ERIE
1940	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1940	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1940	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1940	U S NAVAL RESERVES TRAINING SHIP	ATKINSON DIRECTORY CO	ERIE
1940	COAST GUARD CUTTER DIX	ATKINSON DIRECTORY CO	ERIE
1940	X [E S] LUND HERMAN [BOAT BUILDER]	ATKINSON DIRECTORY CO	ERIE
1940	TONY'S FISH LUNCH & RESTAURANT	ATKINSON DIRECTORY CO	ERIE
1940	SHAW FISH CO [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1940	PAASCH BROS [BOAT BLDRS]	ATKINSON DIRECTORY CO	ERIE
1940	MCALLISTER-WALTHER CO [MARINE SUPPLIES]	ATKINSON DIRECTORY CO	ERIE
1940	X [W S] DEARBECK & CHRISTENSEN [SHIP CHANDLERS]	ATKINSON DIRECTORY CO	ERIE
1940	ERIE FISH CO [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1940	RALPH FRED C [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1940	DAILEY'S RESTAURANT	ATKINSON DIRECTORY CO	ERIE
1940	KOLBE FISHERIES CO	ATKINSON DIRECTORY CO	ERIE
1940	PENNA S & S BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1940	PENNA STATE DEPT FISHERIES BOAT	ATKINSON DIRECTORY CO	ERIE

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1940	MANNY'S BOAT LIVERY	ATKINSON DIRECTORY CO	ERIE
1940	CAP'S BOAT LIVERY	ATKINSON DIRECTORY CO	ERIE
1940	W [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE
1940	X [E S] AMERICAN BOILER WKS	ATKINSON DIRECTORY CO	ERIE
1940	Y [W S] LAKE SIDE PARK	ATKINSON DIRECTORY CO	ERIE
1940	Z [SECOND INTS]	ATKINSON DIRECTORY CO	ERIE
1935	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1935	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1935	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1935	X [E S] LOESCH EUGEN & SONS [FISH]	ATKINSON DIRECTORY CO	ERIE
1935	LUND HERMAN [BOAT BLDG]	ATKINSON DIRECTORY CO	ERIE
1935	BENDER MARINE CO [MARINE SUPPLIES]	ATKINSON DIRECTORY CO	ERIE
1935	D & C NAVIGATION CO	ATKINSON DIRECTORY CO	ERIE
1935	LAKE ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE
1935	TONY'S FISH LUNCH	ATKINSON DIRECTORY CO	ERIE
1935	COAST GUARD PETREL	ATKINSON DIRECTORY CO	ERIE
1935	SHAW FISH CO	ATKINSON DIRECTORY CO	ERIE
1935	WALKER THOS R [WHO FISH]	ATKINSON DIRECTORY CO	ERIE
1935	PAASCH BROS [BOAT BLDRS]	ATKINSON DIRECTORY CO	ERIE
1935	HARRY'S FISH MARKET	ATKINSON DIRECTORY CO	ERIE
1935	NIAGARA RESTR	ATKINSON DIRECTORY CO	ERIE
1935	X [W S] DAILEY'S RESTR	ATKINSON DIRECTORY CO	ERIE
1935	DEARBECK & CHRISTENSON [SHIP CHANDLERS]	ATKINSON DIRECTORY CO	ERIE

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State St, Erie, PA 16501

1935	ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE
1935	KOLBE FISHERIES CO	ATKINSON DIRECTORY CO	ERIE
1935	RALPH FRED C [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1935	PENNA S & S BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1935	PENNA STATE DEPT FISHERIES BOAT	ATKINSON DIRECTORY CO	ERIE
1935	SMITH CLYDE A [BOAT LIVERY]	ATKINSON DIRECTORY CO	ERIE
1935	W [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE
1935	X [E S] AMERICAN BOILER WKS	ATKINSON DIRECTORY CO	ERIE
1935	Y [W S] LAKE SIDE PARK	ATKINSON DIRECTORY CO	ERIE
1935	Z [SECOND INTS]	ATKINSON DIRECTORY CO	ERIE
1930	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1930	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1930	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1930	LOESCH EUGEN & SONS [FISH]	ATKINSON DIRECTORY CO	ERIE
1930	LAKE ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE
1930	STREUBER OIL CO	ATKINSON DIRECTORY CO	ERIE
1930	MARKOPOLIS TONY [RESTR]	ATKINSON DIRECTORY CO	ERIE
1930	SHAW FISH CO	ATKINSON DIRECTORY CO	ERIE
1930	NIAGARA RESTAURANT	ATKINSON DIRECTORY CO	ERIE
1930	COAST GUARD PATROL NO 219	ATKINSON DIRECTORY CO	ERIE
1930	U S OFFICERS CUSTOM HOUSE	ATKINSON DIRECTORY CO	ERIE
1930	PAASCH BROS [BOAT BLDRS]	ATKINSON DIRECTORY CO	ERIE
1930	AMERICAN BOILER WKS	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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1930	X [W S] HARBOR MASTERS OFFICE	ATKINSON DIRECTORY CO	ERIE
1930	JORDAN WM R	ATKINSON DIRECTORY CO	ERIE
1930	LAKE SHORE FISH CO	ATKINSON DIRECTORY CO	ERIE
1930	CASE FISH CO	ATKINSON DIRECTORY CO	ERIE
1930	ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE
1930	KOLBE IRWIN H FISH CO	ATKINSON DIRECTORY CO	ERIE
1930	DAILEY JOS C [RESTR]	ATKINSON DIRECTORY CO	ERIE
1930	DAILEY LOUIS [CONFR]	ATKINSON DIRECTORY CO	ERIE
1930	PA S & S BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1930	PENNA STATE DEPT	ATKINSON DIRECTORY CO	ERIE
1930	FISHERIES BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1930	NIAGARA (PERRY'S FLAG SHIP)	ATKINSON DIRECTORY CO	ERIE
1930	SMITH CLYDE A [BOAT LIVERY]	ATKINSON DIRECTORY CO	ERIE
1930	DEARBECK & CHRISTENSEN [SHIP CHANDLERS]	ATKINSON DIRECTORY CO	ERIE
1925-26	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1925-26	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1925-26	U S S WOLVERINE	ATKINSON DIRECTORY CO	ERIE
1925-26	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1925-26	LOESCH EUGEN & SONS [FISH]	ATKINSON DIRECTORY CO	ERIE
1925-26	LAKE ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE
1925-26	DEARBECK & CHRISTENSEN [GAS AND OIL]	ATKINSON DIRECTORY CO	ERIE
1925-26	MASOPLAS TONY [RESTR]	ATKINSON DIRECTORY CO	ERIE
1925-26	SHAW FISH CO	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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1925-26	STREUBER OIL CO	ATKINSON DIRECTORY CO	ERIE
1925-26	COAST GUARD PATROL 121	ATKINSON DIRECTORY CO	ERIE
1925-26	DAILEY JOSEPH C [CONFR AND RESTR]	ATKINSON DIRECTORY CO	ERIE
1925-26	ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE
1925-26	HARBOR MASTERS OFFICE	ATKINSON DIRECTORY CO	ERIE
1925-26	JORDAN WM R	ATKINSON DIRECTORY CO	ERIE
1925-26	STATE HARBOR COMMISSION	ATKINSON DIRECTORY CO	ERIE
1925-26	CASE FISH CO	ATKINSON DIRECTORY CO	ERIE
1925-26	X [W S] P A S & S BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1925-26	PENNA STATE DEPT	ATKINSON DIRECTORY CO	ERIE
1925-26	FISHERIES BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1925-26	NIAGARA (PERRYS FLAG SHIP)	ATKINSON DIRECTORY CO	ERIE
1925-26	SMITH CLYDE A [BOAT LIVERY]	ATKINSON DIRECTORY CO	ERIE
1925-26	X [E S] PAASCH BROS [BOAT BLDRS]	ATKINSON DIRECTORY CO	ERIE
1925-26	MCGINNIS EDWARD H [SHEET METAL WKS]	ATKINSON DIRECTORY CO	ERIE
1920	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1920	PUBLIC STEAMSHIP LANDING	ATKINSON DIRECTORY CO	ERIE
1920	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1920	HAND & JOHNSON TUG LINE	ATKINSON DIRECTORY CO	ERIE
1920	HARBOR MASTER'S OFFICE	ATKINSON DIRECTORY CO	ERIE
1920	JORDON WM R	ATKINSON DIRECTORY CO	ERIE
1920	U S S WOLVERINE	ATKINSON DIRECTORY CO	ERIE
1920	SEIDEL HENRY A [CONFR]	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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1920	ERIS FISH CO	ATKINSON DIRECTORY CO	ERIE
1920	DAGGETT ERNEST E U S [ENG]	ATKINSON DIRECTORY CO	ERIE
1920	U S ENGINEER'S BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1920	CASE FISH CO	ATKINSON DIRECTORY CO	ERIE
1920	COUNTER LAFAYETTE	ATKINSON DIRECTORY CO	ERIE
1920	LAKE ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE
1920	LOESCH E & SONS [WHOL FISH]	ATKINSON DIRECTORY CO	ERIE
1920	SULLIVAN TIMOTHY P	ATKINSON DIRECTORY CO	ERIE
1920	COATES NICHOLAS	ATKINSON DIRECTORY CO	ERIE
1920	PENNA S & S HOME [BOAT HOUSE]	ATKINSON DIRECTORY CO	ERIE
1920	PENNA DEPT OF FISHERIES [BOAT HS]	ATKINSON DIRECTORY CO	ERIE
1920	NIAGARA (PERRY'S FLAG SHIP)	ATKINSON DIRECTORY CO	ERIE
1920	X [ES] PAASCH BROS [BOAT BLDRS]	ATKINSON DIRECTORY CO	ERIE
1915-16	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1915-16	U S GOVT ENGRS BOATHOUSE	ATKINSON DIRECTORY CO	ERIE
1915-16	U S GOVT RESERVATION	ATKINSON DIRECTORY CO	ERIE
1915-16	U S S WOLVERINE	ATKINSON DIRECTORY CO	ERIE
1915-16	PENNA NAVAL RESERVES	ATKINSON DIRECTORY CO	ERIE
1915-16	HARBOR MASTER'S OFFICE	ATKINSON DIRECTORY CO	ERIE
1915-16	JORDAN WM R	ATKINSON DIRECTORY CO	ERIE
1915-16	GREAT LAKES TOWING CO	ATKINSON DIRECTORY CO	ERIE
1915-16	CASE FISH CO	ATKINSON DIRECTORY CO	ERIE
1915-16	ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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1915-16	SEIDEL HENRY A [CONFR]	ATKINSON DIRECTORY CO	ERIE
1915-16	PENNA DEPT OF FISHERIES [BOATHSE]	ATKINSON DIRECTORY CO	ERIE
1915-16	PAASCH BROS [BOAT BLDRS]	ATKINSON DIRECTORY CO	ERIE
1915-16	LAKE ERIE FISH CO	ATKINSON DIRECTORY CO	ERIE
1915-16	LOESCH EUGEN & SON [FISH]	ATKINSON DIRECTORY CO	ERIE
1915-16	SULLIVAN TIMOTHY P [SALOON]	ATKINSON DIRECTORY CO	ERIE
1909-10	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1909-10	CLEVELAND & BUFFALO TRANSIT CO [O & DOCK]	ATKINSON DIRECTORY CO	ERIE
1909-10	U S GOVT ENGRS [BOATHOUSE]	ATKINSON DIRECTORY CO	ERIE
1909-10	U S GOVT RESERVATION	ATKINSON DIRECTORY CO	ERIE
1909-10	U S S WOLVERINE	ATKINSON DIRECTORY CO	ERIE
1909-10	HARBOR MASTER'S [OFFICE]	ATKINSON DIRECTORY CO	ERIE
1909-10	JORDAN WM R	ATKINSON DIRECTORY CO	ERIE
1909-10	SEIDEL HENRY A [CONFR]	ATKINSON DIRECTORY CO	ERIE
1909-10	UNION ICE CO [ICEHOUSE]	ATKINSON DIRECTORY CO	ERIE
1909-10	SULLIVAN TIMOTHY P [SAL]	ATKINSON DIRECTORY CO	ERIE
1909-10	SULLIVAN FELIX S [BARTNDR]	ATKINSON DIRECTORY CO	ERIE
1909-10	SULLIVAN RAYMOND F [BARTNDR]	ATKINSON DIRECTORY CO	ERIE
1909-10	SULLIVAN MARY V	ATKINSON DIRECTORY CO	ERIE
1909-10	PAASCH BROS [BOATBLDRS]	ATKINSON DIRECTORY CO	ERIE
1906-07	PUBLIC DOCK	ATKINSON DIRECTORY CO	ERIE
1906-07	U S GOVERNMENT ENGINEER BOAT OUSE	ATKINSON DIRECTORY CO	ERIE
1906-07	US GOVERNMENT RESERVATIN CO	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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1906-07	ROBT E CONNOR [SGT USN]	ATKINSON DIRECTORY CO	ERIE
1906-07	HARRY S MYERS U S N	ATKINSON DIRECTORY CO	ERIE
1906-07	HARBOR MASTERS OFFICE	ATKINSON DIRECTORY CO	ERIE
1906-07	WM R JORDAN	ATKINSON DIRECTORY CO	ERIE
1906-07	TIMOTHY P SULLIVAN [S&H]	ATKINSON DIRECTORY CO	ERIE
1906-07	JOSEPH P SULLIVAN [FIRM]	ATKINSON DIRECTORY CO	ERIE
1906-07	FELIX S SULLIVAN [BARTNDR]	ATKINSON DIRECTORY CO	ERIE
1906-07	RAYMOND F SULLLIVAN [LAB]	ATKINSON DIRECTORY CO	ERIE
1906-07	MARY V SULIVAN	ATKINSON DIRECTORY CO	ERIE
1906-07	MARY STANLEY	ATKINSON DIRECTORY CO	ERIE
1906-07	PAASCH BROS [BOAT BLDRS [O&S]	ATKINSON DIRECTORY CO	ERIE
1906-07	UNION ICE CO [ICE HOUSE]	ATKINSON DIRECTORY CO	ERIE
1906-07	HAMOT HOSPITAL GROUNDS	ATKINSON DIRECTORY CO	ERIE
1901-02	JONES CLARK [FISHERMAN]	ATKINSON DIRECTORY CO	ERIE
1901-02	SULLIVAN T P [SAIN KPR]	ATKINSON DIRECTORY CO	ERIE
1901-02	SULLIVAN JAMES [LAB]	ATKINSON DIRECTORY CO	ERIE
1901-02	SULLIVAN FELIX [LAB]	ATKINSON DIRECTORY CO	ERIE
1901-02	PAASCH'S BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1901-02	KNOBLOCH'S BOAT HOUSE	ATKINSON DIRECTORY CO	ERIE
1901-02	KANE JAMES J [MACHINE AND BOILER SHOP]	ATKINSON DIRECTORY CO	ERIE
1901-02	HAMOT HOSPITAL	ATKINSON DIRECTORY CO	ERIE
1901-02	UNION ICE CO [ICE HOUSES]	ATKINSON DIRECTORY CO	ERIE
1901-02	MCLEARY BAYSIDE [REST]	ATKINSON DIRECTORY CO	ERIE

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1901-02	NELSON ANNA [AVT]	ATKINSON DIRECTORY CO	ERIE
1901-02	MCCLEARY MILTON L [CONF AND CIGARS]	ATKINSON DIRECTORY CO	ERIE
1901-02	WHITE & SKIFFINGTON [BOAT HSE]	ATKINSON DIRECTORY CO	ERIE

2 STATE ST

2019	COVE RUM RUNNERS [RESTAURANTS]	R.L. POLK & CO.	ERIE
2011	RUM RNNERS COVE [RESTAURANTS]	R.L. POLK & CO.	ERIE

3 STATE ST

2019	SMUGGLERS WHARF INC [RESTAURANTS]	R.L. POLK & CO.	ERIE
2016	KUBAISK KATHY	R.L. POLK & CO.	ERIE
2011	SMUGGERS WHARF INC [RESTAURANTS]	R.L. POLK & CO.	ERIE
2005	SMUGGLERS WHARF INC [REATAURANTS]	R.L. POLK & CO.	ERIE
2000	SMUGGLERS WHARF	R.L. POLK & CO.	ERIE
1990	SMUGGLERS WHARF [RESTAURANT]	R.L. POLK & CO.	ERIE
1984	SMUGGLERS WHARF [RESTAURANT]	R.L. POLK & CO.	ERIE
1979-80	SMUGGLERS WHARF [RESTAURANT]	ATKINSON DIRECTORY CO	ERIE
1960	TONY'S RESTR & MARINE BAR	ATKINSON DIRECTORY CO	ERIE
1960	NOLAN J W & SON INC SHIPYARD [SHIP BLDRS]	ATKINSON DIRECTORY CO	ERIE
1960	LUND BOAT WKS	ATKINSON DIRECTORY CO	ERIE
1960	SMITH'S LIVE BAIT	ATKINSON DIRECTORY CO	ERIE
1960	MCALLISTER R D & SON [BOATS]	ATKINSON DIRECTORY CO	ERIE
1960	ERIE MARINE SUP CO	ATKINSON DIRECTORY CO	ERIE
1960	BARCELONA FISH CO [WHOL]	ATKINSON DIRECTORY CO	ERIE

4 STATE ST

2011	BARTON MALOW CO [GENL CONTRACTORS]	R.L. POLK & CO.	ERIE
2005	WATERFRONT SEAFOOD & STEAK HSE [RESTAURANTS]	R.L. POLK & CO.	ERIE
1995	WATERFRON THE [RESTR]	R.L. POLK & CO.	ERIE
1990	BUOY THE [RESTR]	R.L. POLK & CO.	ERIE

City Directory Target Property Address

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1984	BUOY THE [RESTR]	R.L. POLK & CO.	ERIE
1979-80	BUOY THE [RESTR]	ATKINSON DIRECTORY CO	ERIE
1975	BUOY THE [RESTR]	ATKINSON DIRECTORY CO	ERIE
1970	RIDER'S ON THE BAY [RESTR]	ATKINSON DIRECTORY CO	ERIE
1965	RIDER'S ON THE BAY [RESTR]	ATKINSON DIRECTORY CO	ERIE
1960	RIDERS ON THE BAY [RESTR]	ATKINSON DIRECTORY CO	ERIE
1955	RIDERS ON THE BAY [RESTR]	ATKINSON DIRECTORY CO	ERIE
1949-50	RIDERS ON THE BAY [RESTR]	ATKINSON DIRECTORY CO	ERIE

5 STATE ST

2019	ANCHOR MARINE LTD [BOAL DLRS SALES & SERV]	R.L. POLK & CO.	ERIE
2011	ANCHOR MARINE LTD [BOAT RPR]	R.L. POLK & CO.	ERIE
2005	ANCHOR MARINE LTD [BOAT DLRS SALES & SERV]	R.L. POLK & CO.	ERIE
2000	ANCHOR MARINE	R.L. POLK & CO.	ERIE
1990	MC ALLISTER R D & SON LTD [BOAT DLRS]	R.L. POLK & CO.	ERIE
1984	MCALLISTER R D & SON SPORT BOAT CENTER LRD [BOAT DLRS]	R.L. POLK & CO.	ERIE
1979-80	MC ALLISTER R D & SON LTD	ATKINSON DIRECTORY CO	ERIE
1975	MC ALLISTER R D & SON LTD	ATKINSON DIRECTORY CO	ERIE
1970	AD-VANCE ADVERTISING	ATKINSON DIRECTORY CO	ERIE

7 STATE ST

2019	NIAGARA CONCESSION [TOURIST ATTRACTIONS]	R.L. POLK & CO.	ERIE
2016	ANCHOR MARINE LTD [MARINE EQUIP SUPL]	R.L. POLK & CO.	ERIE
2011	NIAGARA CONCESSION [TOURIST ATTRACTORS]	R.L. POLK & CO.	ERIE
2005	BI CENTENNIAL TOWER [TOURIST ATTRACTIONS]	R.L. POLK & CO.	ERIE
2000	CENTENNIAL TOWER [TOURIST ATTRACTIONS]	R.L. POLK & CO.	ERIE

City Directory Target Property Address

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8 STATE ST

1955	WALLY'S FISH BAIT	ATKINSON DIRECTORY CO	ERIE
1909-10	WICKS CHARLES C [BOAT LIVERY]	ATKINSON DIRECTORY CO	ERIE

9 STATE ST

1955	CIRCLE CAF?	ATKINSON DIRECTORY CO	ERIE
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1-3 STATE ST

1965	TONY'S RESTR & MARINE BAR	ATKINSON DIRECTORY CO	ERIE
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10 STATE ST

2005	RINGER DIANE K	R.L. POLK & CO.	ERIE
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12 STATE ST

1909-10	SULLIVAN LOUIE (WID RICHD) [RESTR]	ATKINSON DIRECTORY CO	ERIE
1909-10	DASH JOHN [FISHERMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	SITTERLEE ALBERT [FISHERMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	LANNIGAN JAMES [FISHERMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	MALONEY JOHN [LAB]	ATKINSON DIRECTORY CO	ERIE
1909-10	CONWAY JOHN [FISHERMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	THOMAS JOHN [FISHERMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	MAITLAND JULIA [DOMESTIC]	ATKINSON DIRECTORY CO	ERIE
1906-07	RICHRD SULLIVAN [RESTR S&H]	ATKINSON DIRECTORY CO	ERIE
1906-07	JOHN CUMMIN [SAILOR]	ATKINSON DIRECTORY CO	ERIE
1906-07	JOHN DASH [FISHMN]	ATKINSON DIRECTORY CO	ERIE

16 STATE ST

1915-16	GALLAGHER EUGENE J [BOAT LIVERY]	ATKINSON DIRECTORY CO	ERIE
1915-16	X [NW COR] MCCURDY MRS SARAH J	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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1915-16	Y [100 FRONT ST INTS]	ATKINSON DIRECTORY CO	ERIE
1915-16	Z [200 SECOND ST INTS]	ATKINSON DIRECTORY CO	ERIE
1909-10	GALLAGHER EUGENE J [BOAT LIVERY]	ATKINSON DIRECTORY CO	ERIE
1909-10	X [WS HESS] ENGINEERING CO [WKS]	ATKINSON DIRECTORY CO	ERIE
1906-07	THOMAS WHITE [BOAT HOUSE]	ATKINSON DIRECTORY CO	ERIE
1906-07	X [WS] CHARLS C WICKS [BOAT LIVERY CO]	ATKINSON DIRECTORY CO	ERIE
<u>17 STATE ST</u>			
1965	ERIE MARINE SUP CO [CHANDLERS]	ATKINSON DIRECTORY CO	ERIE
<u>23 STATE ST</u>			
1965	VACANT	ATKINSON DIRECTORY CO	ERIE
<u>24 STATE ST</u>			
1930	COOPER WM	ATKINSON DIRECTORY CO	ERIE
<u>26 STATE ST</u>			
1930	MEAD GEO	ATKINSON DIRECTORY CO	ERIE
<u>28 STATE ST</u>			
1930	TRENIER JOHN D	ATKINSON DIRECTORY CO	ERIE
1930	X [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE
1930	Y [W S] LAKE SIDE PARK	ATKINSON DIRECTORY CO	ERIE
1930	Z [SECOND INTS]	ATKINSON DIRECTORY CO	ERIE
1925-26	COOPER WM	ATKINSON DIRECTORY CO	ERIE
1925-26	BUTLER WINIFRED MRS	ATKINSON DIRECTORY CO	ERIE
1925-26	LAWSON LE ROY	ATKINSON DIRECTORY CO	ERIE
1925-26	X [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE
1925-26	Y [W S] LAKE SIDE PARK	ATKINSON DIRECTORY CO	ERIE

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1925-26	Z [SECOND INTS]		ATKINSON DIRECTORY CO	ERIE
1920	CHASE HORACE H		ATKINSON DIRECTORY CO	ERIE
1920	QUINN JOSIE MRS		ATKINSON DIRECTORY CO	ERIE
1920	COOPER WM		ATKINSON DIRECTORY CO	ERIE
1920	X [N E COR] AMERICAN BOILER WKS		ATKINSON DIRECTORY CO	ERIE
1920	Y [FRONT INTS]		ATKINSON DIRECTORY CO	ERIE
1920	Z [SECOND INTS]		ATKINSON DIRECTORY CO	ERIE
1909-10	SULLIVAN LOUIE (WID RICHARD) [FURN ROOMS]		ATKINSON DIRECTORY CO	ERIE
1909-10	DEGMAN PETER [FIREMAN]		ATKINSON DIRECTORY CO	ERIE
1909-10	X [100 FRONT ST INTS]		ATKINSON DIRECTORY CO	ERIE
1906-07	AMERICAN BOILER WORKS [O&S]		ATKINSON DIRECTORY CO	ERIE
1906-07	FRNAK PETERSEN [LAB]		ATKINSON DIRECTORY CO	ERIE
1906-07	FRANK PETERSEN [LAUNDRES]		ATKINSON DIRECTORY CO	ERIE
1906-07	GOLDIE PETERSEN B		ATKINSON DIRECTORY CO	ERIE
1906-07	GEORGE E PETERSON [CARP]		ATKINSON DIRECTORY CO	ERIE
1906-07	X [100 FRONT ST INTS]		ATKINSON DIRECTORY CO	ERIE
1901-02	PETERSON IDA MRS WID]		ATKINSON DIRECTORY CO	ERIE
1901-02	PATCHEN MARIA MRS [WID]		ATKINSON DIRECTORY CO	ERIE
1901-02	MAITLAND JAMES [LAB]		ATKINSON DIRECTORY CO	ERIE
1901-02	MARINE IRON WORKS SAMUEL A ROSS [PROP]		ATKINSON DIRECTORY CO	ERIE
<u>34 STATE ST</u>				
2019	LAKESHORE TOWING SVC INC [DIVERS]		R.L. POLK & CO.	ERIE
2019	DANIELS ANDREW	1	R.L. POLK & CO.	ERIE
2019	PRESQUE ISLE ANGLER BAIT [FISHING BAIT]	1	R.L. POLK & CO.	ERIE

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2019	WOLVERINE PARK MARINE [MARINAS]	2	R.L. POLK & CO.	ERIE
2016	NIAGARRA CONCESSION [TOURIST ATTRACTIONS]		R.L. POLK & CO.	ERIE
2016	LAKESHORE TOWING SVC INC [WRECKER SERV]		R.L. POLK & CO.	ERIE
2016	PREQUSE ANGLER [FLASHING BELT]		R.L. POLK & CO.	ERIE
2011	LAKESHORE TOWIN SVC INC [TOWING MARINE]		R.L. POLK & CO.	ERIE
2011	PRESQUE ISLE ANGLER DOCKSIDE	1	R.L. POLK & CO.	ERIE
2011	WOLVERINE PARK MARINA	2	R.L. POLK & CO.	ERIE
2005	LAKESHORE TOWING SVC INC [TOWING- MARINE]		R.L. POLK & CO.	ERIE
2005	SMITH BAIT STAND [FISHING BAIT]		R.L. POLK & CO.	ERIE
2005	WOLVERINE PARK MARINA [MARINAS]		R.L. POLK & CO.	ERIE
2000	LAKESHORE TOWING SERVICES INCORPRATED [MARIEN TOWING SERV]		R.L. POLK & CO.	ERIE
2000	SMITH BAIT SHOP [BAIT /TACKLE]		R.L. POLK & CO.	ERIE
2000	WOLVERINE PARK MARINE		R.L. POLK & CO.	ERIE
2000	X [W BAYFORNT PKWY INTS]		R.L. POLK & CO.	ERIE
2000	Y [W FRONT ST BEGINS]		R.L. POLK & CO.	ERIE

36 STATE ST

2019	HARBOR VIEW MINIATURE GOLF [GOLF COURSES- MANIATURE]		R.L. POLK & CO.	ERIE
2019	V [E BAYFRONT PKWY ENDS]		R.L. POLK & CO.	ERIE
2019	W [W BAYFRONT PKWY INTS]		R.L. POLK & CO.	ERIE
2019	X [RAILROAD CROSSES]		R.L. POLK & CO.	ERIE
2019	Y [E DOBBINS LNDG BEGINS]		R.L. POLK & CO.	ERIE
2019	Z [W DOBBINS LNDG BEGINS]		R.L. POLK & CO.	ERIE
2016	WOLVERINE PATK MARINA [MARINAS]		R.L. POLK & CO.	ERIE
2016	HARBOR VIEW MINIATURE GOLF [GOLF COURSES MINIATURE]		R.L. POLK & CO.	ERIE
2016	V [E BRAYFRONT PKWY ENDS]		R.L. POLK & CO.	ERIE
2016	W [W BAYFRONT PKWY INTS]		R.L. POLK & CO.	ERIE
2016	X [RAILROAD CROSSES]		R.L. POLK & CO.	ERIE
2016	Y [E DOBBINS LNDG BEGINS]		R.L. POLK & CO.	ERIE
2016	Z [W DONNINS LNDG BEGINS]		R.L. POLK & CO.	ERIE
2011	HARBOR VIEW MINATURE GOLF		R.L. POLK & CO.	ERIE

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2011	V [E BAYFRONT PKWY ENDS]	R.L. POLK & CO.	ERIE
2011	W [W BAYFRONT PKWY INTS]	R.L. POLK & CO.	ERIE
2011	X [RAILROAD CROSSES]	R.L. POLK & CO.	ERIE
2011	Y [E DOBBINS LNDG BEGINS]	R.L. POLK & CO.	ERIE
2011	Z [W DOBBINS LNDG BEGINS]	R.L. POLK & CO.	ERIE
2005	HAROBOR VIEW MINIATURE GOLF [GOLF COURSES-MINIATURE]	R.L. POLK & CO.	ERIE
2005	V [E BAYFRONT PKWY INTS]	R.L. POLK & CO.	ERIE
2005	W BAYFRONT PKWY INTS]	R.L. POLK & CO.	ERIE
2005	X [RAILROAD CROSSES]	R.L. POLK & CO.	ERIE
2005	Y [E DOBBINS LNDG BEGINS]	R.L. POLK & CO.	ERIE
2005	Z [W DOBBINS LNDG BEGINS]	R.L. POLK & CO.	ERIE

5-7 STATE ST

1955	CIRCLE FISHERIES	ATKINSON DIRECTORY CO	ERIE
1949-50	CIRCLE FISHERIES CO	ATKINSON DIRECTORY CO	ERIE
1949-50	X [ES] AMERICAN BOILER WORKS INC	ATKINSON DIRECTORY CO	ERIE
1949-50	LUND BOAT BUILDERS	ATKINSON DIRECTORY CO	ERIE
1949-50	X [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE
1945	CIRCLR FISHERIES CO	ATKINSON DIRECTORY CO	ERIE
1945	X [ES] AMERICAN BOILER WORKS	ATKINSON DIRECTORY CO	ERIE
1945	Y [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE
1945	Z [WS] LAKE SIDE PARK	ATKINSON DIRECTORY CO	ERIE

5-9 STATE ST

1965	WHITE OUTBOARD MARINE [SLS & SERV]	ATKINSON DIRECTORY CO	ERIE
1965	LUND BOAT WKS	ATKINSON DIRECTORY CO	ERIE
1965	NIAGARA MARINA INC [STGE]	ATKINSON DIRECTORY CO	ERIE
1965	MCALLISTER R D & SON [BOATS]	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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1965	MCALLISTER J K AGCY [INS]	ATKINSON DIRECTORY CO	ERIE
1960	CIRCLE FISHERIES	ATKINSON DIRECTORY CO	ERIE

69 STATE ST

1990	COMMUNITY BOATING CENTER [BOAT SLS]	R.L. POLK & CO.	ERIE
1984	BORCKWAY MARINE OF ERIC INC [BOAT RENTALS & SLS]	R.L. POLK & CO.	ERIE
1979-80	BROCKWAY MARINE OF ERIE INC	ATKINSON DIRECTORY CO	ERIE
1979-80	PATTERSON-ERIE CORP [OFCS]	ATKINSON DIRECTORY CO	ERIE
1979-80	LOVELL MANUFACTURING CO	ATKINSON DIRECTORY CO	ERIE
1975	NORTHWEST MARINE INC	ATKINSON DIRECTORY CO	ERIE
1975	PATTERSON-ERIE CORP	ATKINSON DIRECTORY CO	ERIE

80 STATE ST

1995	STATE OFFICES FLAGSHIP NIAGARA	R.L. POLK & CO.	ERIE
1995	X [BAYFRONT HIGHWAY INTS]	R.L. POLK & CO.	ERIE
1995	Y [E 2D ST INTS]	R.L. POLK & CO.	ERIE
1995	Z [W 2D ST INTS]	R.L. POLK & CO.	ERIE
1990	STATE OFFICES FLAGSHIP NIAGERIA	R.L. POLK & CO.	ERIE
1984	STATE OFFICES FLAGSHIO NIAGARA	R.L. POLK & CO.	ERIE
1979-80	STATE OFFICES FLAGSHIP NIAGARA	ATKINSON DIRECTORY CO	ERIE
1975	STATE OFFICES FLAGSHIP NIAGARA	ATKINSON DIRECTORY CO	ERIE
1970	STATE OFFICES FLAGSHIP NIAGARA	ATKINSON DIRECTORY CO	ERIE
1965	STATE FLAGSHIP NIAGARA HISTORIAL COMN	ATKINSON DIRECTORY CO	ERIE
1960	PENNA HISTORICAL & MUSEUM COMN	ATKINSON DIRECTORY CO	ERIE
1955	PENNA HISTORICAL & MUSEUM COMN	ATKINSON DIRECTORY CO	ERIE

83 STATE ST

1960	VACANT	ATKINSON DIRECTORY CO	ERIE
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City Directory Target Property Address

State St, Erie, PA 16501

1955	VACANT	ATKINSON DIRECTORY CO	ERIE
<u>85 STATE ST</u>			
1990	COMPLETE ANGLER TACKLE SHOP	R.L. POLK & CO.	ERIE
1990	W [E FRONT ST BEGINS]	R.L. POLK & CO.	ERIE
1990	X [W FRONT ST BEGINS]	R.L. POLK & CO.	ERIE
1990	Y [E 2D ST BEGINS]	R.L. POLK & CO.	ERIE
1990	Z [W 2D ST BEGINS]	R.L. POLK & CO.	ERIE
1984	COMPLETE ANGLER TACKLE SHOP	R.L. POLK & CO.	ERIE
1984	W [E FRONT ST BEGINS]	R.L. POLK & CO.	ERIE
1984	X [W FRONT ST BEGINS]	R.L. POLK & CO.	ERIE
1984	Y [E 2D ST BEGINS]	R.L. POLK & CO.	ERIE
1984	Z [W 2D ST BEGINS]	R.L. POLK & CO.	ERIE
1979-80	FOREIGN CAR PARTS OF ERIE (DOCK)	ATKINSON DIRECTORY CO	ERIE
1979-80	W [E FRONT ST BEGINS]	ATKINSON DIRECTORY CO	ERIE
1979-80	X [W FRONT ST BEGINS]	ATKINSON DIRECTORY CO	ERIE
1979-80	Y [E 2D ST BEGINS]	ATKINSON DIRECTORY CO	ERIE
1979-80	Z [W 2D ST BEGINS]	ATKINSON DIRECTORY CO	ERIE
1975	STORAGE HOUSE NORTHWEST MARINE	ATKINSON DIRECTORY CO	ERIE
1975	X [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE
1975	Y [2D INTS]	ATKINSON DIRECTORY CO	ERIE
1970	SALTER GEO A MARINE INSURANCE CO	ATKINSON DIRECTORY CO	ERIE
1970	GREAT LAKES MARINE SALES & SERVICE CO	ATKINSON DIRECTORY CO	ERIE
1965	GREAT LAKES MARINE SLS & SERV CO	ATKINSON DIRECTORY CO	ERIE
1960	GREAT LAKES MARINE SLS & SERV CO	ATKINSON DIRECTORY CO	ERIE
1955	GREAT LAKES MARINE SALES & SERVICE CO	ATKINSON DIRECTORY CO	ERIE
1955	X [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE

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1955	Y [2D INTS]	ATKINSON DIRECTORY CO	ERIE
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91 STATE ST

1965	VACANT	ATKINSON DIRECTORY CO	ERIE
1960	AMERICAN MOTORS [STGE]	ATKINSON DIRECTORY CO	ERIE
1960	X [FRONT INTS]	ATKINSON DIRECTORY CO	ERIE
1960	Y [2D INTS]	ATKINSON DIRECTORY CO	ERIE
1949-50	VACANT	ATKINSON DIRECTORY CO	ERIE
1945	MARIE 'S SNACK BAR [RESTR]	ATKINSON DIRECTORY CO	ERIE
1945	X [SECOND INTS]	ATKINSON DIRECTORY CO	ERIE

100 STATE ST

2019	APARTMENTS	R.L. POLK & CO.	ERIE
2019	ALBERTSTADT J W [ATTORNEYS]	R.L. POLK & CO.	ERIE
2019	ANTOUN JAMES M [ATTOERNEYS]	R.L. POLK & CO.	ERIE
2019	BAER THOMAS M [NONCLASSIFIED ESTABLISHMENTS]	R.L. POLK & CO.	ERIE
2019	BAY FRONT DISTRIBUTING [WHOLRS]	R.L. POLK & CO.	ERIE
2019	BICKFORD JENNA [ATTORNEYS]	R.L. POLK & CO.	ERIE
2019	BIRDGUARD.COM [ADVERTISING- COMPUTER]	R.L. POLK & CO.	ERIE
2019	FORQUER TECHNOLOGY GROUP [COMPUTERS]	R.L. POLK & CO.	ERIE
2019	JOHN PERSINGER MDGN [ATTORNEYS]	R.L. POLK & CO.	ERIE
2019	MCCULLOUGH MATTHEW W OFC [ATTORNEYS]	R.L. POLK & CO.	ERIE
2019	MCPC INC [TOYS-RETAIL]	R.L. POLK & CO.	ERIE
2019	MILLER DANIEL M OFFICE [ATTORNEYS]	R.L. POLK & CO.	ERIE
2019	PAGLIARI NICHOLAS R [ATTORNEYS]	R.L. POLK & CO.	ERIE
2019	PENDLETON THOMAS A [ATTORNEYS]	R.L. POLK & CO.	ERIE
2019	PORT OF ERIE [MARINE CARGO HANDLING]	R.L. POLK & CO.	ERIE
2019	SHAMBURG S CRAIG [ATTORNEYS]	R.L. POLK & CO.	ERIE
2019	SPODEN JAMES E JR OFC [ATTORNEYS]	R.L. POLK & CO.	ERIE

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State St, Erie, PA 16501

2019	WATSON RYAN S [ATTORNEYS]		R.L. POLK & CO.	ERIE
2019	BUEHLER & ASSOC INC [ARCHITECTS]	B100	R.L. POLK & CO.	ERIE
2019	LEHRIAN & PALO ORAL SURGERY [DENTAL SURGEONS]	B102	R.L. POLK & CO.	ERIE
2019	WELLS FARGO ADVISORS [FINANCIAL ADVISORY SERV]	100	R.L. POLK & CO.	ERIE
2019	AXA ADVISORS [FINANCIAL PLANNING CONSULTANTS]	101	R.L. POLK & CO.	ERIE
2019	MCMANIS & MOUSALVE [BUSINESS MGMT CONSULTANTS]	103	R.L. POLK & CO.	ERIE
2019	NEWLINE CREATIONS [WEBSITE DESIGN SETV]	103	R.L. POLK & CO.	ERIE
2019	PRO FLOOR CARE [JANITOR SERV]	103	R.L. POLK & CO.	ERIE
2019	PASSPORT MANAGEMENT LLC [REAL ESTATE]	104	R.L. POLK & CO.	ERIE
2019	NEDRESKI WEALTH MANAGEMENT [FINANCIAL ADVISORY SERV]	201	R.L. POLK & CO.	ERIE
2019	COMMUNITY & ECONOMIC DEVMNT [GOVERNMENT OFFICES-STATE]	202	R.L. POLK & CO.	ERIE
2019	ESCOBAR EKATERINA V [COUNSELORS]	202	R.L. POLK & CO.	ERIE
2019	FAMILY INSTITUTE [PSYCHOLOGISTS]	202	R.L. POLK & CO.	ERIE
2019	XANDER ANNA LYNN [COUNSELORS]	202	R.L. POLK & CO.	ERIE
2019	GOVERNOR'S OFFICE [STATE GOVERNMENT]	205	R.L. POLK & CO.	ERIE
2019	LILLIS MC KIBBEN BONJIOVANNI [INSURANCE]	300	R.L. POLK & CO.	ERIE
2019	NORTHWESTERN MUTUAL FINANCIAL [FINANCIAL ADVISORY SERV]	300	R.L. POLK & CO.	ERIE
2019	US ALCOHOL TOBACCCO & FIREARMS [FEDERAL GOVERNMENT POLICE]	302	R.L. POLK & CO.	ERIE
2019	ANCHOR COUNSELING ASSOC [PSYCHOLOGISTS]	312	R.L. POLK & CO.	ERIE
2019	FREEDOM INVESTMENT MGMT GROUP [INVESTMENT MGMT]	420	R.L. POLK & CO.	ERIE
2019	IN SIGHT HUNTING PRODUCTS [HUNTING EQUIP/SUPL]	480	R.L. POLK & CO.	ERIE
2019	TILLMAN GROUPE [ADVERTISING]	480	R.L. POLK & CO.	ERIE
2019	MONAHAN & MANAHAN [ACCOUNTANTS]	500	R.L. POLK & CO.	ERIE
2019	DICKIE MC CAMEY & CHILCOTE PC [ATTORNEYS]	503	R.L. POLK & CO.	ERIE
2019	WEDGEWOOD INVESTORS INC [FINANCIAL ADVISORY SERV]	506	R.L. POLK & CO.	ERIE
2019	FIRST NATIONAL BANK OF PA [BANKS]	600	R.L. POLK & CO.	ERIE

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2019	DOYLE CATHERINE M [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2019	MAC DONALD ILLIG JONES & BRITTN [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2019	WARREN T JONES ATTORNEYS [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2019	WILLOUGHBY DAVID S [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2019	X [W 2ND ST INTS]		R.L. POLK & CO.	ERIE
2016	BACKFORD JENNA [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	CONVERTY HEALTH CARE INC [HEALTH PLANS]		R.L. POLK & CO.	ERIE
2016	F T C S EQUANT AXA ERIE PA [NONCLASSIFIED ESTABLISHMENTS]		R.L. POLK & CO.	ERIE
2016	FORQUER TECHNOLOGY GROYP [COMPUTERS]		R.L. POLK & CO.	ERIE
2016	HOLLAND NICHOLAS J [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	LYONS BILLY		R.L. POLK & CO.	ERIE
2016	MILLER DANIEL M OFC [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	MONDRI PATRICK J [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	PAGILIRI NICHOLAS R [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	PAUL R HAKEL CFP [FINANCIAL ADVISORY SERV]		R.L. POLK & CO.	ERIE
2016	PENDLETON THOMAS A [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	PENNIMAN AUTUMN		R.L. POLK & CO.	ERIE
2016	PRSINGER JOHN MDGN [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	SHAMSBURG S CRAIG [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	WATSON RYAN S [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	BUEHLER & ASSOC INC [ARCHITECTS]		R.L. POLK & CO.	ERIE
2016	LEHRMAN & PALO ORAL SURGERY [DENTISTS]		R.L. POLK & CO.	ERIE
2016	OBRIEN LILLIANE		R.L. POLK & CO.	ERIE
2016	WELLS FARGO ADVISORS [FINANCIAL ADVISORY SERV]		R.L. POLK & CO.	ERIE
2016	AXA ADVISORS [FINANCIAL PLANNING CONSULTANTS]	101	R.L. POLK & CO.	ERIE
2016	MCMANIS & MONSALVE ASSOC [BUSINESS MGMT CONSULTANTS]	103	R.L. POLK & CO.	ERIE
2016	NEWLINECREATIONS [WEBSITE DESIGN SERV]	103	R.L. POLK & CO.	ERIE
2016	PRO FLOOR CAF? [JANITOR SERV]	103	R.L. POLK & CO.	ERIE

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2016	PASSPORT MANAGEMENT LLC [REAL ESTATE]	104	R.L. POLK & CO.	ERIE
2016	BNY MELLON WEALTH MANAGEMENT [ASSET MGMT]	200	R.L. POLK & CO.	ERIE
2016	JOHNSON GUY C	200	R.L. POLK & CO.	ERIE
2016	COMMUNITY & ECONOMIC DEVMNT [GOVERNMENT OFFICES STATE]	202	R.L. POLK & CO.	ERIE
2016	DUNBAR MELANIE J [COUNSELORS]	202	R.L. POLK & CO.	ERIE
2016	FAMILY INSTITUTE [PSYCHOLOGISTS]	205	R.L. POLK & CO.	ERIE
2016	GOVERNORS OFFICEE [STATE GOVERNMENT]	210	R.L. POLK & CO.	ERIE
2016	D U I DEFENSE GROUP [NONCLASSIFIED ESTABLISHMENTS]	210	R.L. POLK & CO.	ERIE
2016	STARK NORMAN A	210	R.L. POLK & CO.	ERIE
2016	STARK CATHERINE	210	R.L. POLK & CO.	ERIE
2016	TRAVIS LAW FIRM [ATTORNEYS]	210	R.L. POLK & CO.	ERIE
2016	LILLIS BILL	300	R.L. POLK & CO.	ERIE
2016	LILLIS MC KIBBAN BINJIOVANNI [INSURANCE]	300	R.L. POLK & CO.	ERIE
2016	NORTHWESTERN MUTUAL FINANCIAL [INSURANCE]	300	R.L. POLK & CO.	ERIE
2016	US ALCOHOL TOBACCO & FIREARMS [FEDERAL GOVERNMENT POLICE]	302	R.L. POLK & CO.	ERIE
2016	COMBS LORI	310	R.L. POLK & CO.	ERIE
2016	ANCHOR COUNSELING ASSOC [PSYCHOLOGISTS]	212	R.L. POLK & CO.	ERIE
2016	BLACKFORD IRENE	312	R.L. POLK & CO.	ERIE
2016	IRENE T BLACKFOR PHD LLC [PSYCHOLOGISTS]	312	R.L. POLK & CO.	ERIE
2016	HEALTH AMERICA [HEALTH PLANS]	320	R.L. POLK & CO.	ERIE
2016	HEAGEN & CO [BUSINESS MGMT CONSULTANTS]	440	R.L. POLK & CO.	ERIE
2016	UBS FINANCIAL SVC [FINANCIAL ADVISORY SERV]	460	R.L. POLK & CO.	ERIE
2016	IN SIGHT HUNTING PRODUCTS [HUNTING EQUIP SUPL]	480	R.L. POLK & CO.	ERIE
2016	TILLMAN GROUP [ADVERTISING]	480	R.L. POLK & CO.	ERIE
2016	MONAHON & MONAHON [ACCOUNTANTS]	500	R.L. POLK & CO.	ERIE
2016	WEDGEWOOD INVESTOR INC [FINANCIAL ADVISORY SERV]	506	R.L. POLK & CO.	ERIE
2016	ALBERTSTADT JR J W [ATTORNEYS]	700	R.L. POLK & CO.	ERIE

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State St, Erie, PA 16501

2016	ANTOUN JAMES M [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2016	BAUER ROBERT M [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2016	BAUER ROBERY M ATTORNEYS [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2016	CULLEN JAMES D	700	R.L. POLK & CO.	ERIE
2016	DAVID HOLLAND [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2016	DELANEY W P	700	R.L. POLK & CO.	ERIE
2016	DOYLE CATHERINE M [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2016	FUHRER REITER SUSAN [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2016	GILMORE ELLENN	700	R.L. POLK & CO.	ERIE
2016	GOEBEL EDWARD W JR OFC	700	R.L. POLK & CO.	ERIE
2016	HUNTLEY DALE E	700	R.L. POLK & CO.	ERIE
2016	MACDONALD ILLIG JONES [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2016	MC DONALD ILLIP LP [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2016	MCCULLOUGH MATTHEW W OFC [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	MOTT LAURA J [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	PETRINI ROSS M [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	SPODEN JAMES F HR OFC [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	WALKER BRYAN L [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	WEREEN T JONES ATTORNEY [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	WILLOUGHBY DAVID S [ATTORNEYS]		R.L. POLK & CO.	ERIE
2016	ATTORNEY GENERAL OFC CONSUMER [ATTORNEYS]		R.L. POLK & CO.	ERIE
2011	APARTMENTS		R.L. POLK & CO.	ERIE
2011	DIETEMAN FIRM [FEDERAL GOVERNMENT CONTRACTORS]		R.L. POLK & CO.	ERIE
2011	FORQUER TECHNOLOGY GROUP [COMPUTERS]		R.L. POLK & CO.	ERIE
2011	GOEBEL EDWARD W JR OFC		R.L. POLK & CO.	ERIE
2011	HALLER MARCHA H OFC [ATTORNEYS]		R.L. POLK & CO.	ERIE
2011	MILLER DANIEL M OFC [ATTORNEYS]		R.L. POLK & CO.	ERIE
2011	REITER SUSAN F [ATTORNEYS]		R.L. POLK & CO.	ERIE
2011	SAVASTANA MARISSA A [ATTORNEYS]		R.L. POLK & CO.	ERIE
2011	SPODEN JAMES E JR OFC [ATTORNEYS]		R.L. POLK & CO.	ERIE

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2011	STEFANOVSKI LAURA POPOF [ATTORNEYS]		R.L. POLK & CO.	ERIE
2011	TAFT ROGER H OFC [ATTORNEYS]		R.L. POLK & CO.	ERIE
2011	BUEHLER & ASSOC INC [ARCHITECTS]	B100	R.L. POLK & CO.	ERIE
2011	LEHRMAN & PALO ORAL SURGERY [DENTISTS]	B102	R.L. POLK & CO.	ERIE
2011	WELLS FARGO ADVISORS [INVESTMENTS [DENTISTS]	100	R.L. POLK & CO.	ERIE
2011	AXA ADVISORS [FINANCIAL]	101	R.L. POLK & CO.	ERIE
2011	MCMANIS & MONSALVE ASSOC [BUSINESS MGMT CONSULTANTS]	103	R.L. POLK & CO.	ERIE
2011	NEWLINE CREATIONS [WEBSITE DESIGN SERV]	103	R.L. POLK & CO.	ERIE
2011	PRO FLOOR CARE [JANITOR SERV]	103	R.L. POLK & CO.	ERIE
2011	BNY MELLON WEALTH MANAGMEENT [ASSET MGMT]	20	R.L. POLK & CO.	ERIE
2011	DUNABAR MELANIE J [COUNSELORS]	202	R.L. POLK & CO.	ERIE
2011	FAMILY INSTITUTE INC	202	R.L. POLK & CO.	ERIE
2011	WALKER BENEFITS [EMPLOYEE BENEFIT CONSULTANTS]	203	R.L. POLK & CO.	ERIE
2011	COMMUNITY & ECONOMIC DEV [GOVERNMENT OFFICES STATE]	205	R.L. POLK & CO.	ERIE
2011	GOVERNORS NORTHWEST REGL OFC	205	R.L. POLK & CO.	ERIE
2011	PENNSYLVANIA DEPT COMM	205	R.L. POLK & CO.	ERIE
2011	DIETMAN DAVID F [ATTORNEYS]	210	R.L. POLK & CO.	ERIE
2011	MCCORMICK DOUG [ATTORNEYS]	210	R.L. POLK & CO.	ERIE
2011	STARK FIRM [ATTORNEYS]	210	R.L. POLK & CO.	ERIE
2011	TRAVIS LAW FIRM [ATTORNEYS]	210	R.L. POLK & CO.	ERIE
2011	DAILEY CHARLIE A [INSURANCE]	210	R.L. POLK & CO.	ERIE
2011	LILLIS MC KIBBEN BONGIOVANNI [INSURANCE]	300	R.L. POLK & CO.	ERIE
2011	NORTHWESTERN MUTUAL FINANCIAL [INSURANCE]	300	R.L. POLK & CO.	ERIE
2011	US ALCOHOL TOBACCO FIREARMS	300	R.L. POLK & CO.	ERIE
2011	US ATTORNEY [FEDERAL GOVERNMENT]	302	R.L. POLK & CO.	ERIE
2011	PASSPORT MANAGEMENT [REAL ESTATE]	316	R.L. POLK & CO.	ERIE
2011	HUNTINGTON NATIONAL BANK [BANKS]	420	R.L. POLK & CO.	ERIE
2011	HAGEN & CO [BUSINESS MGMT CONSULTANTS]	440	R.L. POLK & CO.	ERIE

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2011	KELLY JR WILLIAM J [ATTORNEYS]	440	R.L. POLK & CO.	ERIE
2011	RICHARDS ROGER W & NEDRA K	440	R.L. POLK & CO.	ERIE
2011	UBS FINANCIAL SVC [FINANCIAL ADVISORY SERV]	460	R.L. POLK & CO.	ERIE
2011	IN SIGHT HUNTING PRODUCTS [HUNTING EQUIP SUPL]	480	R.L. POLK & CO.	ERIE
2011	TILLMAN GRPOUP [ADVERTISING]	480	R.L. POLK & CO.	ERIE
2011	MONAHAN & MONAHAN [ACCOUNTANTS]	500	R.L. POLK & CO.	ERIE
2011	PMA INSURANCXE GROUP [INSURANCE]	501	R.L. POLK & CO.	ERIE
2011	T BAER FINANCIAL [FINANCIAL PLANNING]	503	R.L. POLK & CO.	ERIE
2011	WEDGEWOOD INVESTORS INC [FINANCIAL ADVOSRORY]	506	R.L. POLK & CO.	ERIE
2011	NEW YORK LIFE	510	R.L. POLK & CO.	ERIE
2011	NEW YORK LIFE INSURANCE	510	R.L. POLK & CO.	ERIE
2011	ALBERTSTAADT JR W W [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2011	ANTOUN JAMES M [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2011	BAUER ROBERT M [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2011	DOYLKE CATHERINE M [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2011	FUHRER REITER SUSAN [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2011	BUREAU CONSUMER PROTECTION [ATTORNEYS]	101	R.L. POLK & CO.	ERIE
2011	X [W 2ND ST INTS]		R.L. POLK & CO.	ERIE
2005	BONIGIOVANNI JOHN M [INSURANCE]		R.L. POLK & CO.	ERIE
2005	BUREAU OF ATF [GOVERNMENT OFFICES- US]		R.L. POLK & CO.	ERIE
2005	DAILEY CHARLIE A [INSURANCE]		R.L. POLK & CO.	ERIE
2005	FORQUER TECHNOLOGY GROUP [COMPUTERS]		R.L. POLK & CO.	ERIE
2005	HAGEN THOMAS B [BUSINESS MGMT CONSULTANTS]		R.L. POLK & CO.	ERIE
2005	JENKINS SARAH		R.L. POLK & CO.	ERIE
2005	LAURA J MOTT ATTORNEY [ATTORNEYS]		R.L. POLK & CO.	ERIE
2005	PORT AUTHORITY [STATE GOVERNMENT]		R.L. POLK & CO.	ERIE
2005	RICHARD J PARKS ATTORNEY [ATTORNEYS]		R.L. POLK & CO.	ERIE
2005	TECHNICA DEVELOPMENT [REAL ESTATE]		R.L. POLK & CO.	ERIE
2005	LUCAS MARK	8	R.L. POLK & CO.	ERIE
2005	LEHRIAN ORAL SURGERY [DENTIST]	B102	R.L. POLK & CO.	ERIE

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2005	WACHOVIA SECURITIES [INVESTMENT SECURITIES]	100	R.L. POLK & CO.	ERIE
2005	WEIBEL MARK R	100	R.L. POLK & CO.	ERIE
2005	CROWNER KING ARCHITECTS [ARCHITECTS]	101	R.L. POLK & CO.	ERIE
2005	AMERICAN HOME MORTGAGE [REAL ESTATE LOANS]	102	R.L. POLK & CO.	ERIE
2005	FAMILY INSTITUTE [PSYCHOLOGISTS]	103	R.L. POLK & CO.	ERIE
2005	MELLON FINANCIAL CORP [FINANCIAL ADVISORY SERV]	200	R.L. POLK & CO.	ERIE
2005	COMMUNITY & ECONOMIC DEV DEPT [GOVERNMENT OFFICES-STATES]	202	R.L. POLK & CO.	ERIE
2005	NORMAN W SEIP & ASSOC [BUSINESS MGT CONSULTANTS]	203	R.L. POLK & CO.	ERIE
2005	GOVERNOR'S NORTHWEST REGL OFC [STATE GOVERNMENT]	206	R.L. POLK & CO.	ERIE
2005	STARK FIRM [ATTORNEYS]	210	R.L. POLK & CO.	ERIE
2005	STARK NORMAN A	210	R.L. POLK & CO.	ERIE
2005	TRAVIS LAW FIRM [ATTORNEYS]	210	R.L. POLK & CO.	ERIE
2005	ILLIS MC KIRBBEN & CO [INSURANCE]	300	R.L. POLK & CO.	ERIE
2005	US ATTOTNEY [FEDERAL GOVERNMENT]	302	R.L. POLK & CO.	ERIE
2005	GALLA PAUL V	312	R.L. POLK & CO.	ERIE
2005	NATIONAL TOOL GRINDING [TOOL GRINDING-INDUSTRIAL]	312	R.L. POLK & CO.	ERIE
2005	NTG PRODUCTS GROUP [TOOL GRINDING-INDUSTRIAL]	312	R.L. POLK & CO.	ERIE
2005	HAGEN THOMAS B	440	R.L. POLK & CO.	ERIE
2005	KELLY JR WILLIAM J [ATTORNEYS]	440	R.L. POLK & CO.	ERIE
2005	RICHARDS & ASSOC [ATTORNEYS]	440	R.L. POLK & CO.	ERIE
2005	UBS FINANCIAL SVC [INVESTMENT SECURITIES]	460	R.L. POLK & CO.	ERIE
2005	MONAHAN & MONAHAN [ACCOUNTANTS]	500	R.L. POLK & CO.	ERIE
2005	WEDGEWOOD INVESTORS INC [INVESTORS]	506	R.L. POLK & CO.	ERIE
2005	NEW YORK LIFE INSURANCE [INSURANCE]	510	R.L. POLK & CO.	ERIE
2005	CHRISTY RYAN A [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2005	FUCHS MATTHEWS W [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2005	GABRIEL J OROS ATTORNEYS [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2005	HUNTLEY DALE E	700	R.L. POLK & CO.	ERIE

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2005	JAMES M ANTON ATTORNEY	700	R.L. POLK & CO.	ERIE
2005	MAC DONALD ILLIG JONES [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2005	ROOTH DAWN M [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2005	SAVASTANA MARISSA A [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2005	STEFANOVSKI LAURA P [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2005	STROUPE SCOTT T [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2005	SUSAN FUHRER REITER ATTORNEY [ATTORNEYS]	700	R.L. POLK & CO.	ERIE
2000	ADRAIN SHAUN B [LEGAL SERV]		R.L. POLK & CO.	ERIE
2000	ANTOUN JAMES M ATTOYNEY [ATTY]		R.L. POLK & CO.	ERIE
2000	BRITTON JOHN E ATTORNEYS [ATTY]		R.L. POLK & CO.	ERIE
2000	BROWN WILLIAM R ATTORNEYS OFFICE [ATTY]		R.L. POLK & CO.	ERIE
2000	DECKER BRUCEW L JUNIOR [ATTY]		R.L. POLK & CO.	ERIE
2000	DELANEY W PATRICK ATTORNEYS [ATTY]		R.L. POLK & CO.	ERIE
2000	EBI COMPANIES [WORKERS COMPANIES]		R.L. POLK & CO.	ERIE
2000	FLAHERTY STEPHEN D ATTORNEYS		R.L. POLK & CO.	ERIE
2000	FORQUER TECHNOLOGY GROUP		R.L. POLK & CO.	ERIE
2000	GANFEMI EDWARD M		R.L. POLK & CO.	ERIE
2000	GANGEMI LISA M		R.L. POLK & CO.	ERIE
2000	GOEBELL EDWARD W		R.L. POLK & CO.	ERIE
2000	JUNIOR ATTORNEY OFFICE [ATY]		R.L. POLK & CO.	ERIE
2000	HAGEN THOMAS B [MANAGEMENT CONSLT SERV]		R.L. POLK & CO.	ERIE
2000	HALLER MARCIA H ATTORNEYS OFFICE [ATTY]		R.L. POLK & CO.	ERIE
2000	HERMAN REBECCA A [LEGAL SERV]		R.L. POLK & CO.	ERIE
2000	HOLLAND DAVID E [ATTY]		R.L. POLK & CO.	ERIE
2000	HUNTLEY DALE E [ATTY]		R.L. POLK & CO.	ERIE
2000	HUNTLEY DALE E ATTORNEYS [ATTY]		R.L. POLK & CO.	ERIE
2000	LAUER JOHN A ATTORNEYS [ATTY]		R.L. POLK & CO.	ERIE
2000	MCCOULOUGH MATHEW W ATTORNEYS OFFICE [ATTY]		R.L. POLK & CO.	ERIE
2000	MCDONNELL JOHN M		R.L. POLK & CO.	ERIE
2000	MEAD JOHN J [LEGAL SERV]		R.L. POLK & CO.	ERIE
2000	MILLER DANIEL M ATTORNEYS OFFICE [ATTY]		R.L. POLK & CO.	ERIE

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2000	MOTT LAURA J LAW OFFICE OF [LEGAL SERV]		R.L. POLK & CO.	ERIE
2000	MURPHEY CRAIG R F ATTORNEYS OFFICE [ATTY]		R.L. POLK & CO.	ERIE
2000	NEW YORK LIFE OAKES KIMBERLY A ATTORNEYS [ATTY]		R.L. POLK & CO.	ERIE
2000	REITER SUSAN FUHRER ATTORNEYS [ATTY]		R.L. POLK & CO.	ERIE
2000	SHAW MARK J [ATTY]		R.L. POLK & CO.	ERIE
2000	SMITH LISA LYNN ATTORNEYS [ATTY]		R.L. POLK & CO.	ERIE
2000	SPODEN JAMES E JUNIOR ATTORNEYS OFFICE [ATTY]		R.L. POLK & CO.	ERIE
2000	STARK NORMAN A [ATTY]		R.L. POLK & CO.	ERIE
2000	STARK NORMAN A		R.L. POLK & CO.	ERIE
2000	WARNER JAMES R [LEGAL SERV]		R.L. POLK & CO.	ERIE
2000	WARNER RUSSEL S ATTORNEYS OFFICE [ATTY]		R.L. POLK & CO.	ERIE
2000	VETERANS HEALTH ADMINISTRATION	1	R.L. POLK & CO.	ERIE
2000	NEW YORK LIFE INSURANCE COMPANY	51	R.L. POLK & CO.	ERIE
2000	PRUDENTIAL SECURITIES [SEC BROKERS /DLRS]	100	R.L. POLK & CO.	ERIE
2000	WASHINGTON MUTUAL BANK [MTGE BANKERS/LOAN]	102	R.L. POLK & CO.	ERIE
2000	WELTHER CAROLYN M INSURACNE OFFICE [INSURANCE AGTS BROKERS]	103	R.L. POLK & CO.	ERIE
2000	DALLAS W HARPMAN	104	R.L. POLK & CO.	ERIE
2000	PYRAMID INDUSTRIES INCOPORATED [PLASTICS PIPE]	200	R.L. POLK & CO.	ERIE
2000	COMMUNITY AND ECNOMIC DEC PNNSYLVN DEPT OF	202	R.L. POLK & CO.	ERIE
2000	GOVERNORS NORTHWEST REGIONAL OFFICE	202	R.L. POLK & CO.	ERIE
2000	RIDGEFIELD DEVELOPMENT [TRANSPORTATION CONSLT]	203	R.L. POLK & CO.	ERIE
2000	ERIE WESTERN PENNSYLVANIS PORT AUTHORITY [WATER SUP]	205	R.L. POLK & CO.	ERIE
2000	SNYDER EDGAR M & ASSOCIATES [ATTY]	205	R.L. POLK & CO.	ERIE
2000	UNTIED STATES ATTORNEYS EXECUTIVE OFFICE [ATTY]	302	R.L. POLK & CO.	ERIE
2000	GALLA PAUL BV	312	R.L. POLK & CO.	ERIE
2000	EMPLOYEE BENEFITS INSURANCE COMPANY [WORKERS COMPANIES]	320	R.L. POLK & CO.	ERIE

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2000	LILLIS MCKIBBEN & COMPANY [INS AGTS]	420	R.L. POLK & CO.	ERIE
2000	PENNISULLA BROADCASTING COMPANY [RADIO BROADCASTIC STA]	440	R.L. POLK & CO.	ERIE
2000	UBS PAINWEBBER [SEC BROKERS /DLRS]	460	R.L. POLK & CO.	ERIE
2000	GENERAL MOTORS ACCEPTANCE [FINANCING]	501	R.L. POLK & CO.	ERIE
2000	NESBELLA MICHAEL INSURANCE OFFICE [INSURANCE AGTS BROKERS]	510	R.L. POLK & CO.	ERIE
2000	CULLEN JAMES D ATTORNEY OFFICE RESIDENCE [ATTY]	700	R.L. POLK & CO.	ERIE
2000	DRASKOVIC JOHN W [ATTY]	700	R.L. POLK & CO.	ERIE
2000	GANDLEY ROBERT E ATTORNEYS [ATTY]	700	R.L. POLK & CO.	ERIE
2000	MACDONALD ILLG JONES & BRITTON [LEGAL SERV]	700	R.L. POLK & CO.	ERIE
2000	MC DONALD ILLEG LAW FIRM [ATTY]	700	R.L. POLK & CO.	ERIE
2000	MCDONALD ILLIG JONES BRITTON [LEGAL SERV]	700	R.L. POLK & CO.	ERIE
2000	MIZNER JOHN F ATTORNEYS [ATTY]	700	R.L. POLK & CO.	ERIE
2000	PARKS RICHARD J [ATTY]	700	R.L. POLK & CO.	ERIE
2000	STROH JOHN J ATTORNEYS [ATTY]	700	R.L. POLK & CO.	ERIE
2000	CDI [TEMPORARYU HEL SERV]	B100	R.L. POLK & CO.	ERIE
2000	CDI TELECOMUNICATION INCORATED [ARCHT SEV]	B100	R.L. POLK & CO.	ERIE
2000	NORHTSHORE PSYCHOLOGICAL ASSOCIATES [CLINICAL PSYCHLOGIST]	B102	R.L. POLK & CO.	ERIE
1995	BUILDING		R.L. POLK & CO.	ERIE
1995	SUITES		R.L. POLK & CO.	ERIE
1995	GRANT INDUSTRIAL CONTROLS INC [ELEC SUP HSE]	B1	R.L. POLK & CO.	ERIE
1995	REAL ESTATE SERVICES WHITE DOVE SERVICES INC [BLDG MTCE & CLN SERV]	B103	R.L. POLK & CO.	ERIE
1995	PRUDENTIAL SECURITIES INC	100	R.L. POLK & CO.	ERIE
1995	MANPOWER TEMPORARY SERVICES	101	R.L. POLK & CO.	ERIE
1995	P N C BANK	102	R.L. POLK & CO.	ERIE
1995	WELLER WELTHER & ASSOC [INS OFC]	103	R.L. POLK & CO.	ERIE
1995	ERNST & YOUNG [CPA'S]	200	R.L. POLK & CO.	ERIE
1995	VACANT	202	R.L. POLK & CO.	ERIE
1995	RIDGEFIELD DEVELOPMENT CORP [REAL EST INVESTMENTS]	203	R.L. POLK & CO.	ERIE

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1995	SEIP NORMAN W & ASSOC [MGMT CONSTLG]	203	R.L. POLK & CO.	ERIE
1995	I B M MARKETING OFC	300	R.L. POLK & CO.	ERIE
1995	BOETGER BARGO & ASSOC [ACTURARY FIRM]	400	R.L. POLK & CO.	ERIE
1995	LILLIS MC KIBBEN AND CO [INS]	420	R.L. POLK & CO.	ERIE
1995	RICHARDS & ASSOCIATES [ATTYS]	440	R.L. POLK & CO.	ERIE
1995	PAINE WEBBER INC [INVESTMENTS BROKERS]	460	R.L. POLK & CO.	ERIE
1995	VACANT	500	R.L. POLK & CO.	ERIE
1995	GENERAL MOTORS ACCEPTANCE CORP	501	R.L. POLK & CO.	ERIE
1995	NEW YORK LIFE [INS CO]	510	R.L. POLK & CO.	ERIE
1995	MAC DONALD ILLIG JONES & BRITTON [ATTYS]	700	R.L. POLK & CO.	ERIE
1990	BUILDING		R.L. POLK & CO.	ERIE
1990	SUITES		R.L. POLK & CO.	ERIE
1990	BACK BAYLIGHTS [RESTR]	B	R.L. POLK & CO.	ERIE
1990	CAR CARE UNLIMITED	2	R.L. POLK & CO.	ERIE
1990	PRUDENTIAL BACHE SECURITIES INC	100	R.L. POLK & CO.	ERIE
1990	MANPOWER TEMPORARY SRVICE	101	R.L. POLK & CO.	ERIE
1990	MARINE BANK	102	R.L. POLK & CO.	ERIE
1990	ERNST & YOUN [CPAS]	200	R.L. POLK & CO.	ERIE
1990	CORP YELLOW [PAGE MKTG]	202	R.L. POLK & CO.	ERIE
1990	GENERAL MOTORS ACCEPTANCE CORP	501	R.L. POLK & CO.	ERIE
1990	MAC DONALD ILLIG JONES & BRITTON [LWYRS]	700	R.L. POLK & CO.	ERIE

101 STATE ST

2016	X [W 2ND ST INTS]		R.L. POLK & CO.	ERIE
1970	VACANT		ATKINSON DIRECTORY CO	ERIE
1970	X [FRONT INTS]		ATKINSON DIRECTORY CO	ERIE
1970	Y [2D INTS]		ATKINSON DIRECTORY CO	ERIE
1965	NOLAN J W BOAT WORKS		ATKINSON DIRECTORY CO	ERIE
1965	X [FRONT INTS]		ATKINSON DIRECTORY CO	ERIE

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1965	Y [2D INTS]		ATKINSON DIRECTORY CO	ERIE
<u>103 STATE ST</u>				
2000	BROWN JOE K	113	R.L. POLK & CO.	ERIE
2000	X [E DOBBINS LNDG BEGINS]		R.L. POLK & CO.	ERIE
2000	Y [W DOBBINS LNDG BEGINS]		R.L. POLK & CO.	ERIE
<u>109 STATE ST</u>				
2005	LOGISTICS PLUS [LOGISTICS]		R.L. POLK & CO.	ERIE
2005	X [W 2ND ST INTS]		R.L. POLK & CO.	ERIE
<u>110 STATE ST</u>				
1909-10	KELSO MARY A		ATKINSON DIRECTORY CO	ERIE
1909-10	KELSO C MACEY [LAB]		ATKINSON DIRECTORY CO	ERIE
1909-10	X [200 SECOND ST INTS]		ATKINSON DIRECTORY CO	ERIE
1906-07	MRS MARY A KELSO		ATKINSON DIRECTORY CO	ERIE
1906-07	C MACEY KELSO		ATKINSON DIRECTORY CO	ERIE
1906-07	THOMAS W ALTON [CONTR]		ATKINSON DIRECTORY CO	ERIE
1906-07	X [200 SECOND ST INTS]		ATKINSON DIRECTORY CO	ERIE
<u>118 STATE ST</u>				
1901-02	EDDY EMMA S MRS [WID]		ATKINSON DIRECTORY CO	ERIE
1901-02	KELSO MARY MISS		ATKINSON DIRECTORY CO	ERIE
1901-02	KELSO MACY [FARMER]		ATKINSON DIRECTORY CO	ERIE
1901-02	WALTON THOS [SHIP BLDR]		ATKINSON DIRECTORY CO	ERIE
<u>155 STATE ST</u>				
2000	BALDWIN JOHN		R.L. POLK & CO.	ERIE
<u>171 STATE ST</u>				
2000	HEALTHPLACE [HEALTH /ALLIED SERV]		R.L. POLK & CO.	ERIE
2000	X [W 2ND ST BEGINS]		R.L. POLK & CO.	ERIE

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200 STATE ST

2019	MALDONALDO MICHAEL [NURSES-LICENSED-ANESTHETISAL]	R.L. POLK & CO.	ERIE
2019	RAJ SOUNDARARAJ MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	SYKOLA CASSIDY G [NURSES-LICENSED-ANESTHETISAL]	R.L. POLK & CO.	ERIE
2019	UPMC HAMOT IMAGING CTR SURG [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	UPMC HAMOT SURGERY CTR [SLEEP DISORDERS]	R.L. POLK & CO.	ERIE
2019	WEFLACE AARON	R.L. POLK & CO.	ERIE
2011	HAMOT SURGERY CTR [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2011	WALLACE AARON MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	CERMAK MARY BETH MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	HAMOT SURGERY CTR [HOSPITALS]	R.L. POLK & CO.	ERIE
2000	H PALTT COMPANY	R.L. POLK & CO.	ERIE
2000	HAMOTT SURGERY CENTER [AMULATORY SURGICAL CT]	R.L. POLK & CO.	ERIE
1970	ERIE MET TRANSIT AUTHORITY (GARAGE)	ATKINSON DIRECTORY CO	ERIE

201 STATE ST

2019	AMESTJESIOLOGISTS OF ERIE [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	ARMET-MANCINEL KERRY K MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	BACON ABIGAIL F [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	BANEY KELSEY ANN [SPEECH PATHOLOGISTS]	R.L. POLK & CO.	ERIE
2019	BANKS VANESSA DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	BENDER JOSEPH J NP [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	BIDALES GIORGOS K MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	BLACK LEVI COLTER [NURSES-LICENSED-ANESTHETIST]	R.L. POLK & CO.	ERIE
2019	CAMMARATA CHRISTPHER DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE

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2019	CHANG SUE-JEAN MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	CHAUDRY ZUBAIR MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	CHEN WAYNE ALAN MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	CLINIC ENGINEERS [ENGINEERS]	R.L. POLK & CO.	ERIE
2019	COLAO JORDYN M [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	DESIDERIO DANIEL B MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	DILLEN AMANDA [NURSES-LICENSED-ANESTHETIST]	R.L. POLK & CO.	ERIE
2019	DINELLO GINA MARIE [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	DIVELL ERIC [NURSES & NURSES REGISTRIES]	R.L. POLK & CO.	ERIE
2019	DOWNING THERESE C [NURSES-LICENSED-ANESTHETIST]	R.L. POLK & CO.	ERIE
2019	DRAKE ERIC L [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	DUPAIX JOHN P MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	DY CONSTANTINE MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	ERIE GENERAL ELECTRIC FED CU [CREDIT UNIONS]	R.L. POLK & CO.	ERIE
2019	FIRSTER SHAUN [NURSES-LICENSED-ANESTHETIST]	R.L. POLK & CO.	ERIE
2019	FRIEDMAN JANET E [NURSES-LICENSED-ANESTHETIST]	R.L. POLK & CO.	ERIE
2019	GANZ LISA R NP [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	GATES LYNN M [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	GIACOMELLI MARTHA JANE [SPEECH PATHOLOGISTS]	R.L. POLK & CO.	ERIE
2019	GLENN BRITTANY C DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	GREENTHANER ASHLEY R PT [PHYS THERAPISTS]	R.L. POLK & CO.	ERIE
2019	HAMOT AUDIOLOGY [AUDIOLOGISTS]	R.L. POLK & CO.	ERIE
2019	HAMOT HOSPITALISTS [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	HAMOT MEDICAL CTR [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE

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2019	HAMOT NURSING [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	HAMOT SHOCK TRAUMA [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	HOVENDON BRIDGET A [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	JACOBSON ZACHARY C [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	KANARSKIY YULIYA D PA [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	KARL KAITLYN M [NURSES-LICENSED-ANESTHETISTS]	R.L. POLK & CO.	ERIE
2019	KIMMY ALYSSA L [NURSES-LICENSED-ANESTHETISTS]	R.L. POLK & CO.	ERIE
2019	KIRKWOOD TYLER W [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	KRAUS GAIL NP [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	KRICHKO KIM E [NURSES-LICENSED-ANESTHETIST]	R.L. POLK & CO.	ERIE
2019	KURESHI ALIA TERRI [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	KUVSHINIKOV TATYANA N [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	LAPIA ALYSSA M [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	LARMON DONALD E [NURSES-LICENSED-ANESTHETISTS]	R.L. POLK & CO.	ERIE
2019	LITTLETON TRAVIS W MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	MACIAK RYAN M DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	MARKHAM SHANNON R [NURSES-LICENSED-ANESTHETISTS]	R.L. POLK & CO.	ERIE
2019	MCQUONE BRIAN T DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	NAPA [NURSES-LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2019	NEWHOUSE JENNA K [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	NORTHWEST PA CLEFT PALATE INST [CLINICS]	R.L. POLK & CO.	ERIE
2019	NOTTINGHAM REBEKAH J [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	PERSINGER C K NP [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE

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2019	PETERS MICHELLE A [NURSES-LICENSED-ANESTHETISTS]	R.L. POLK & CO.	ERIE
2019	RABERDING CRAIG J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	RACEDO AFRICAN CARLOS J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	RIEGLE BENJAMIN DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	RUPP JEROME NP [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	SAHA DEBJIT MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	SALLOT NICOLA LYNN [NURSES-PRACTITIONERS]	R.L. POLK & CO.	ERIE
2019	SANFILIPPO ANDREW DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	SEVILLA BERRIO RONALDO A MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	SIMKO AUNDREAL L [NURSES-LICENSED-ANTHETISTS]	R.L. POLK & CO.	ERIE
2019	SIRAH SVIATLANA MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	STEINER TARA L [NURSES-LICENSED-ANTHETIST]	R.L. POLK & CO.	ERIE
2019	TAHIIC ANELA [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	TAYAG DANIEL L MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	TROESTER JUDITH H [SPEECH & HEARING THERAPY]	R.L. POLK & CO.	ERIE
2019	TUTTLE JACOB [NURSES-LICENSED-ANESTHETISTS]	R.L. POLK & CO.	ERIE
2019	UPMC HAMOT [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	UPMC HAMOT IMAGING SVC	R.L. POLK & CO.	ERIE
2019	UPMC HAMOT MED CTR INTNSVSTS [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	VOURS HEATHER [PHYSICIANS ASSITANTS]	R.L. POLK & CO.	ERIE
2019	WARNER KRYSSTOPHER [PHYS THERAPISTS]	R.L. POLK & CO.	ERIE
2019	WEBB MATTHEW DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2019	WEBSTER JEREMY B PA [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2019	WEIR CAITLIN B [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE

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2019	WICKWIRE KARIN A [NURSES-PRACITITIONERS]		R.L. POLK & CO.	ERIE
2019	WILWOHL KAYLA E [PHYSICIANS ASSISTANTS]		R.L. POLK & CO.	ERIE
2019	WOJDCIECHOWSKI SARA [NURSES-LICENSED-ANESTHERISTS]		R.L. POLK & CO.	ERIE
2019	WOODS HILLARY R [PHYSICIANS ASSISTANTS]		R.L. POLK & CO.	ERIE
2019	WUJCIK APRIL D [AUDIOLOGISTS]		R.L. POLK & CO.	ERIE
2019	YODER BRYAN L [NURSES-LICENSED-ANESTHETISTS]		R.L. POLK & CO.	ERIE
2019	YOST BRYAN DO [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2019	ZHAO YUJIN [NURSES-LICENSED-ANESTHETISTS]		R.L. POLK & CO.	ERIE
2019	SAAD MAHMOOD DO MD [PHYSICIANS & SURGEONS]	1	R.L. POLK & CO.	ERIE
2019	UNIVERSITY-PUTTSBUR GH MED CTR [PHYSICIANS & SURGEONS]	1	R.L. POLK & CO.	ERIE
2019	UPMC HAMOT MED CTR EMERGENCY [PHYSICIANS & SURGEONS]	1	R.L. POLK & CO.	ERIE
2019	HAMOT MEDICAL CTR [PHYSICIANS & SURGEONS]	2	R.L. POLK & CO.	ERIE
2019	NORTH AMERICAN PARTNERS ANSTHS [PHYSICIANS & SURGEONS]	2	R.L. POLK & CO.	ERIE
2019	UNIVERSITY-OUTTSBUR GH MED CTR [PHYSICIANS & SURGEONS]	4	R.L. POLK & CO.	ERIE
2019	KILEPS AARON H PA [PHYSICIANS ASSISTANTS]	8	R.L. POLK & CO.	ERIE
2019	REGIONAL HEALTH SVC [PHYSICIANS & SURGEONS]	8	R.L. POLK & CO.	ERIE
2019	JOHNSEN ROBERT W MD [PHYSICIANS & SURGEONS]	1200	R.L. POLK & CO.	ERIE
2019	X [E 3RD ST INTS]		R.L. POLK & CO.	ERIE
2019	Y [W 3RD ST INTS]		R.L. POLK & CO.	ERIE
2016	HAMOT SURGERY CTR [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2016	MALDONADO MICHAEL [NURSES LICENSED ANESTHETIST]		R.L. POLK & CO.	ERIE
2016	RAJ SOUNDARARAH MD [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2016	SYKOLA CASSIDY [NURSES LICENSED ANESTHETIST]		R.L. POLK & CO.	ERIE
2016	UPMC HAMO IMAGING CTR SURG [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE

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2016	VERDECCLA EMMETT	R.L. POLK & CO.	ERIE
2016	ANESTHESOLOGISTS OF ERIE [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	BATHRICK CHRLES MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	BAUMAN JEANNE MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	BEATTY CELESTE NP [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2016	BENDER JOSEPG J NP [NURSES PRACTITIOENRS]	R.L. POLK & CO.	ERIE
2016	BERNY JAMES J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	BLACK LEVI COLTER [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	BONGUTY MBEMBRO MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	CAMMARATA CHRISTOPHER DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	CHAUDHARY ZUBAIR MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	CLINIC ENGINEEERS [ENGINEERS]	R.L. POLK & CO.	ERIE
2016	CONSTABLE JOSHUA D OD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	CULLINANA IV JAMES P DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	DIEFENBACH WILLIAM D [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	DILLEN AMANDA [NURSES LICENSES ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	DORRIS PAULA J NP [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2016	DOWING TERESE C [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	ELLER EMIE L NP [NURSES PRACTITOOENRS]	R.L. POLK & CO.	ERIE
2016	EMERSON PATRICK MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	EIRE GENERAL ELETRIC FED CU [CREDIT UNION]	R.L. POLK & CO.	ERIE
2016	FRIEDMAN JANET E [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	GALLAGHER JOHN M DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE

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2016	GIACOMELLI MARTHA JANES [SPEECH PATHOLOGISTS]	R.L. POLK & CO.	ERIE
2016	GIBB GRANT DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	GRAT LAKES NEUROSURGERY [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	HAFFAR ABDUL KARIM MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	HAMOT BREAST HETLAH CTR [DIAGNOSTIC IMAGING CENTERS]	R.L. POLK & CO.	ERIE
2016	HAMOT MEDICAL CTR [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	HAMOT MINIMALLY INVASIVE SURG [HOSPITALS]	R.L. POLK & CO.	ERIE
2016	HAMOT NURSGIN [NURSES & NURSES REGISTRIES]	R.L. POLK & CO.	ERIE
2016	HAMOT PRIMATY CARE NETWORK [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	HAMOT SHOCK TRAUMA [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	HEINZ JIDITH M NP [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2016	HERNSTEIN ROBERT M MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	HOPPE BLAKE A MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	KANARSKIY YULIA D PA [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2016	LARMON DONALD E [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	LEWANDOWSKI TYLER J DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	LEWIS GUS J DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	LUKOS RICHARD L DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	MARSHALL ANTHONY S DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	MCGUIRE KATIE PA [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2016	MCLAUGHLIN BARRETT B DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	MCQUONE BRAINT OD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	METZENBACHER BRAD [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE

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2016	MIAN KHURAM M DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	MILLER JONATHAN MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	MIRARCHI FERDINANDO DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	MOFETT SARAG [PHARMACISTS]	R.L. POLK & CO.	ERIE
2016	MORALES RAFAEL A MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	MORRSION TARA L [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	NARDI DOMINIC J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	NEWHOUSE JENNA K [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2016	NORTHWEST PA CLEFT PLACE INST [CLINICS]	R.L. POLK & CO.	ERIE
2016	OPREANU MADALINA MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	PENA ANTONIO J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	PERSINGER C KP [NURSES PRACTITIOENRS]	R.L. POLK & CO.	ERIE
2016	PETERS MICHELEL A [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	PIKE BETH [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	RUCKS AARON T OD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	RUSSO JOSEPH R MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	SELECT SPECIALTY HOSPITAL [LONG TERM CARE FACILITY]	R.L. POLK & CO.	ERIE
2016	SHEFFER JENNEY M DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	SIMKO ANDREA L [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	SIMONIAN LISA NP [NURSES PRACTITIOENRS]	R.L. POLK & CO.	ERIE
2016	STENER TARA L [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	STEVENS WILLIAM A DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	STONTISCH FRANK MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE

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2016	TAYAG DANIEL L MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	TROESTER JUDITH H [SPEECH & HEARING THERAPY]	R.L. POLK & CO.	ERIE
2016	U P M C HAMOT [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	UPMC HAMOT AUDIOLOGY [AUDIOLOGISTS]	R.L. POLK & CO.	ERIE
2016	UPMC HAMOT EMERGENCY [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	WEIR CAITIN B [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2016	WILLIAMS RICHARD A MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	WOODS HILLARY R [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2016	YEGENSWARAN BALAJI MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	YODER KRISTA [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2016	ZHAO YUJIN [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2011	APARTMENTS	R.L. POLK & CO.	ERIE
2011	ADAMS JOYCE C [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2011	ANESTHESIOLOGISTS OF EIRE [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2011	BATHRICK CHARLES MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2011	BAUMAN JEANNE MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2011	BECKMAN ROBERT V [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	BENDER JOSEPH J [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	BOHEN LISA [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	BOOKER LEA M [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	CAF? ROSES [CAFES]	R.L. POLK & CO.	ERIE
2011	CLINIC ENGINEERS [ENGINNERS]	R.L. POLK & CO.	ERIE
2011	COPOLA CARMELA MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2011	CORNFIELD FREDA W [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE

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2011	DILLA LIZABETH [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	DORRIS PAULA [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	DOWNING TERESE C [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	DUNLAP DALE	R.L. POLK & CO.	ERIE
2011	GANZ LISA R [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	GARBEN KRISTIN M [PHYSICIANS & ASSISTANTS]	R.L. POLK & CO.	ERIE
2011	GILMOUR CAROL A [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	HAGER CAROL A [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	HAMOT BREAST HEALTH CTR	R.L. POLK & CO.	ERIE
2011	HAMOT BEAST SYSTEMS [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2011	HAMOT IMAGING CTR [DIAGNOSTIC IMAGING CENTERS]	R.L. POLK & CO.	ERIE
2011	HAMOT MEDICAL CTR [PHYSICIANS 7 SURGEONS]	R.L. POLK & CO.	ERIE
2011	HAMOT MINIMALLY INVASIVE SURG [SPEECH]	R.L. POLK & CO.	ERIE
2011	HEIDECKER SHARON A [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	KIBLER JEAN M [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	KNOLL DENISE [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	KRAUS GAIL [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	KRICKKOO KIM E [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	LARMON DONALD E [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	LARSON JEFFREY R [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	MACALUSO MARION G [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	MARKIE WICZ MELINDA B [NURSES LICENSED ANESTHETIST]	R.L. POLK & CO.	ERIE
2011	MARTIN CATHERINE A [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	METRO ERIE MEALS ON WHEELS INC [SOCIAL SERV	R.L. POLK & CO.	ERIE
2011	MILLER JONATHAN MD [PHYSICJANS]	R.L. POLK & CO.	ERIE

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2011	NORTHWEST PA CLEFT PALATE INST CLINICS]	R.L. POLK & CO.	ERIE
2011	PARDNI MYRRAH E [PHYSICJANS ASISTANTS]	R.L. POLK & CO.	ERIE
2011	PERSINGER C K [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	PETERS MICHELLE A [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	PICKENS SANDRA [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	ROLAND E MILLER FAMILY MDCN [PHYSICJANS]	R.L. POLK & CO.	ERIE
2011	RUPP JEROME [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	SCHROECK KATHLEEN G [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	SELECT SPECIALTY HOSPITAL [LONG TERM CARE]	R.L. POLK & CO.	ERIE
2011	SKINNER PATRICIA CA [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2011	SPNELL AMY [PHYSICIANS ASSISTANTS]	R.L. POLK & CO.	ERIE
2011	STAFFORD NANETTE S [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2011	TROCKI MELINDA D [SPEECH & HEARING THERAPY]	R.L. POLK & CO.	ERIE
2011	VAN DUZER WILLIAM [NURSES PRACTITIONERS]	R.L. POLK & CO.	ERIE
2005	ALBERT II JOHN DAVID MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	ANESTHESIOLOGISTS OF ERIE [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	BARBERO DANIEL J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	CLINIC ENGINEERS [ENGINEERS]	R.L. POLK & CO.	ERIE
2005	DE JOYA GERMAN D MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	DISANTIS DAVID J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	DULABON GEORGE R MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	EGGLESTON JUSTIN J DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	ERIE HAMOT FEDERAL CU [CREDIT UNIONS]	R.L. POLK & CO.	ERIE
2005	HAMOT HEALTH SYSTEMS [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE

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2005	HAMOT MEDICAL CTR [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	HAMOT ORTHOPAEDIC INSTUTE [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	HAMOT PRIMARY CARE NETWORK [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	INTRIERI PETER M MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	KINKOPH II ROBERT J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	KOCJANCIO JAMES D DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	LIPPE CRAIG N MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	MC CLELLAN JOSEPH R MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	MC ILWAINE JOHN K DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	METRO-ERIE MEALS ON WHEELS INC [NON-PROFIT ORG]	R.L. POLK & CO.	ERIE
2005	NORTHWEST PA CLEFT PALATE INST [CLINICS]	R.L. POLK & CO.	ERIE
2005	NOVAK KEVIN J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	PATHOLOGY ASSOC-ERIE [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	RISAVI BRIAN L DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	ROCKWELL BRUCE MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	SELECT SPECIALTY HOSPITAL [HOSPITALS]	R.L. POLK & CO.	ERIE
2005	SHULKOSKY MARK J MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	SIMONIAN THOMAS M MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	STEVENS SCOTT A DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2005	ZERBONIA ANGELO N DO [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2000	BALBUS MICHAEL W [PHYS]	R.L. POLK & CO.	ERIE
2000	CAREUNIT HOSPITAL PROGRAM [HOSP]	R.L. POLK & CO.	ERIE
2000	ERIE HAMOT FEDERAL CREDIT UNION	R.L. POLK & CO.	ERIE
2000	HAMOT CORPORATE SERVICE INCORPORATED [MANEGEMNT SERV]	R.L. POLK & CO.	ERIE

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2000	HAMOT HEALTH FOUNDATION [ADMINISTRATIVE [MGMT]	R.L. POLK & CO.	ERIE
2000	HAMOT MEDICAL CENTER	R.L. POLK & CO.	ERIE
2000	EMER TRAUMA CENTER 24 HOURS [MED CTR]	R.L. POLK & CO.	ERIE
2000	HAMOT PRIMARY CARE PHYSICIANS NETWORK [PHYS]	R.L. POLK & CO.	ERIE
2000	IMMEDIATE CARE [PHYS]	R.L. POLK & CO.	ERIE
2000	RECORDEX ACQUISTIN [PHOTOCOPYING SERV]	R.L. POLK & CO.	ERIE
2000	REGIONAL BIOMEDICAL EQUIPMENT SERVICE	R.L. POLK & CO.	ERIE
2000	BAYFRONT REGIONAL DEVELOPMENT [DEVELOPERS]	R.L. POLK & CO.	ERIE
1995	HAMOT MEDICAL CENTER	R.L. POLK & CO.	ERIE
1995	HAMOT GIFT SHOP	R.L. POLK & CO.	ERIE
1995	METRO ERIE MEALS ON WHEELS	R.L. POLK & CO.	ERIE
1990	HAMOT HEALTH SYSTEMS	R.L. POLK & CO.	ERIE
1990	HAMOT MEDICAL CENTER	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF ANESTHESIOLOGY	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF EMERGENCY MEDICINE	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF FAMILY PRACTICE	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF LABORATORY	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF MEDICINE	R.L. POLK & CO.	ERIE
1990	DIVISION OF ALLERGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF CARDIOLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF DERMATOLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF ENDOCRINOLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF GASTROENTEROLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF HEMATOLOGY ONCOLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF INFECTIOUS DISEASE	R.L. POLK & CO.	ERIE
1990	DIVISION OF INTERNAL MEDICINE	R.L. POLK & CO.	ERIE
1990	DIVISION OF UROLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF PLASTIC SURGERY	R.L. POLK & CO.	ERIE
1990	DIVISION OF ORAL SURGERY	R.L. POLK & CO.	ERIE
1990	DIVISION OF DIAGNOSTIC RADIOLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF NUCLEAR MEDICINE	R.L. POLK & CO.	ERIE

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1990	DIVISION OF RADIATION THERAPY	R.L. POLK & CO.	ERIE
1990	DIVISION OF NEROSURGERY	R.L. POLK & CO.	ERIE
1990	DIVISION OF GENRAL SUGERY	R.L. POLK & CO.	ERIE
1990	DIVISION OF COLON RECTAL SURGERY	R.L. POLK & CO.	ERIE
1990	DIVISION OF CARDIAVASCULAR THORACIC SURGERY	R.L. POLK & CO.	ERIE
1990	DIVISION OF SURGERY	R.L. POLK & CO.	ERIE
1990	DIVISION OF RADIOLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF ADOLESCENT MEDICINE	R.L. POLK & CO.	ERIE
1990	DIVISION OF NEPHROLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF NEONTOLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF NEOROLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF PHYSICLA MEDICINE	R.L. POLK & CO.	ERIE
1990	DIVISION OF PULMONARY MEDICINE	R.L. POLK & CO.	ERIE
1990	DIVISION OF RHEUMATOLOGY	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF NEUROPSCHIATRY	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF IBSTRICS GYNACOLOGY	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF ORTHOPEDICS	R.L. POLK & CO.	ERIE
1990	DIVISION OF SPORTS MEDICINE	R.L. POLK & CO.	ERIE
1990	DEPARMENT OF OTORHINOLARYNGOLOGY	R.L. POLK & CO.	ERIE
1990	DIVISION OF OTONEUROLOGY & COMMUNICATION DISORDERS	R.L. POLK & CO.	ERIE
1990	DEPARTMENT OF PEDIATRICS	R.L. POLK & CO.	ERIE
1990	HAMOT MEDICAL CENTER UROLOGY CLINIC	R.L. POLK & CO.	ERIE
1990	HAMOT GFT SHOP	R.L. POLK & CO.	ERIE
1990	METRO EROIE MEALS ON WHEELS	R.L. POLK & CO.	ERIE
1984	HAMOT MEDICAL CENTER	R.L. POLK & CO.	ERIE
1984	HAMOT MEDICAL CENTER UROLOGY CLINIC	R.L. POLK & CO.	ERIE
1984	HAMOT GIFT SHOP	R.L. POLK & CO.	ERIE
1984	METRO GIFT SOP	R.L. POLK & CO.	ERIE
1984	METRO ERIE MEALS IN WHEELS	R.L. POLK & CO.	ERIE
1979-80	HAMOT MEDICAL CENTER	ATKINSON DIRECTORY CO	ERIE

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1979-80	HAMOT MEDICAL CENTER UROLOGY CLINIC	ATKINSON DIRECTORY CO	ERIE
1979-80	HAMOT GIFT SHOP	ATKINSON DIRECTORY CO	ERIE
1975	CITY PARKING LOT	ATKINSON DIRECTORY CO	ERIE
1970	CITY PARKING LOT	ATKINSON DIRECTORY CO	ERIE
1965	CITY PARKING LOT	ATKINSON DIRECTORY CO	ERIE
1955	HAMOT HOSP INTERN'S RES HOUSE	ATKINSON DIRECTORY CO	ERIE
1949-50	HAMOT HOSPITAL NURSES HOME	ATKINSON DIRECTORY CO	ERIE
1945	HAMOT HOSPITAL NURSES' HOME	ATKINSON DIRECTORY CO	ERIE
1940	HAMOT HOSPITAL NURSES HOME	ATKINSON DIRECTORY CO	ERIE
1935	HAMOT HOSPITAL NURSES HOME	ATKINSON DIRECTORY CO	ERIE
1930	HAMOT HOSPITAL NURSES HOME	ATKINSON DIRECTORY CO	ERIE
1925-26	HAMOT HOSPITAL MAIDS HOME	ATKINSON DIRECTORY CO	ERIE
1920	HAMOT HOSPITAL MAIDS HOME	ATKINSON DIRECTORY CO	ERIE
1915-16	HAMOT HOSPITAL MAIDS HOME	ATKINSON DIRECTORY CO	ERIE
1909-10	HAMOT HOSPITAL NURSES HOME	ATKINSON DIRECTORY CO	ERIE
1909-10	WLODAREK DOROTHY [MATRON]	ATKINSON DIRECTORY CO	ERIE
1906-07	HAMOT HOSPITAL NURSES HOME	ATKINSON DIRECTORY CO	ERIE
1901-02	GROSS EFFIE N MRS [WID]	ATKINSON DIRECTORY CO	ERIE
1901-02	LAURIE CHAS F [CLK RMS]	ATKINSON DIRECTORY CO	ERIE
1901-02	FOX MARY MISS [SVT]	ATKINSON DIRECTORY CO	ERIE
1901-02	ERIE ELEC MOTOR CO [WAREHSE]	ATKINSON DIRECTORY CO	ERIE
<u>204 STATE ST</u>			
1970	SEAWAY COACH LINE (GARAGE)	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

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210 STATE ST

2016	NEDERSKY JOSEPH P MD [PHYSICIANS & SURGEONS]	R.L. POLK & CO.	ERIE
2016	X [E 3RD ST INTS]	R.L. POLK & CO.	ERIE
2016	Y [W 3RD ST INTS]	R.L. POLK & CO.	ERIE
1970	PRESQUE ISLE PRECISION MACHINE	ATKINSON DIRECTORY CO	ERIE

213 STATE ST

1970	ERIE MET TRANSIT AUTHORITY (GARAGE)	ATKINSON DIRECTORY CO	ERIE
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216 STATE ST

1909-10	SALLOTT AUGUST [LAB]	ATKINSON DIRECTORY CO	ERIE
1909-10	SALLOTT WM J [LAB]	ATKINSON DIRECTORY CO	ERIE
1906-07	AUGUSTY SALLOT [LAB]	ATKINSON DIRECTORY CO	ERIE
1906-07	KATHERINE SALLOT	ATKINSON DIRECTORY CO	ERIE
1901-02	HERSCH ADAM [CAR COND]	ATKINSON DIRECTORY CO	ERIE
1901-02	FITZGERALD DAVID [ST CAR COND]	ATKINSON DIRECTORY CO	ERIE
1901-02	DOLAND THOS [MOTONEER]	ATKINSON DIRECTORY CO	ERIE
1901-02	SMITH LIZZIE MISS	ATKINSON DIRECTORY CO	ERIE

218 STATE ST

1909-10	PHINNEY FRANK [FISHERMAN]	ATKINSON DIRECTORY CO	ERIE
1909-10	FOSDICK SOPHIA (WID WM)	ATKINSON DIRECTORY CO	ERIE
1906-07	CARL B MCQUEEN [LAB]	ATKINSON DIRECTORY CO	ERIE
1901-02	STANTON T M [CAR COND]	ATKINSON DIRECTORY CO	ERIE
1901-02	STANTON H R [ST CAR COND]	ATKINSON DIRECTORY CO	ERIE
1901-02	STANTON INEZ MISS [TCHR]	ATKINSON DIRECTORY CO	ERIE
1901-02	STANTON MAY MISS [TCHR]	ATKINSON DIRECTORY CO	ERIE

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1901-02	STANTON ADDIE MISS [TCHR]	ATKINSON DIRECTORY CO	ERIE
1901-02	STANTON MRS [WID]	ATKINSON DIRECTORY CO	ERIE
1901-02	WILSON F E [ST CAR COND]	ATKINSON DIRECTORY CO	ERIE
1901-02	SIMMONS GEO MARINE HOUSE	ATKINSON DIRECTORY CO	ERIE
1901-02	WESTENBERG WM [LAB]	ATKINSON DIRECTORY CO	ERIE
1901-02	O'DELL THOS [LAB]	ATKINSON DIRECTORY CO	ERIE

220 STATE ST

1925-26	VACANT	ATKINSON DIRECTORY CO	ERIE
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222 STATE ST

1940	ICE CREAM BAR	ATKINSON DIRECTORY CO	ERIE
1935	CHIANAKAS SAML [CONFR]	ATKINSON DIRECTORY CO	ERIE
1930	CALABRESE EDW [CLNR]	ATKINSON DIRECTORY CO	ERIE
1925-26	VACANT	ATKINSON DIRECTORY CO	ERIE
1909-10	SPEED JOHN T [BARBER]	ATKINSON DIRECTORY CO	ERIE

224 STATE ST

2000	BENEDICT MICHAEL	R.L. POLK & CO.	ERIE
1979-80	LA PORTE CO INC [INVESTMENTS]	ATKINSON DIRECTORY CO	ERIE
1979-80	MERMAID INN [RESTR]	ATKINSON DIRECTORY CO	ERIE
1975	LA PORTE CO INC [INVESTMENTS]	ATKINSON DIRECTORY CO	ERIE
1975	MERMAID INN [RESTR]	ATKINSON DIRECTORY CO	ERIE
1970	LA PORTE CO INC [INVESTMENTS]	ATKINSON DIRECTORY CO	ERIE
1970	MERMAID INN [RESTR]	ATKINSON DIRECTORY CO	ERIE
1955	LAFAYETTE TAVERN	ATKINSON DIRECTORY CO	ERIE
1930	CHIANAKAS SAM [CONFR]	ATKINSON DIRECTORY CO	ERIE

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1925-26	DEARBECK JAOGB W [BILLIARDS]	ATKINSON DIRECTORY CO	ERIE
1920	DEARBECK & CHRISTENSEN [POOL]	ATKINSON DIRECTORY CO	ERIE
<u>226 STATE ST</u>			
1930	SERVE-US COFFEE SHOP	ATKINSON DIRECTORY CO	ERIE
1925-26	WACHTER ADOLPH [RESTR]	ATKINSON DIRECTORY CO	ERIE
1901-02	CHRIST MARY MRS [WID]	ATKINSON DIRECTORY CO	ERIE
1901-02	CHRIST GEORGE [LAB]	ATKINSON DIRECTORY CO	ERIE
1901-02	CHRIST WM [LAB]	ATKINSON DIRECTORY CO	ERIE
1901-02	CHRIST ROBT [LAB]	ATKINSON DIRECTORY CO	ERIE
1901-02	CHRIST FRED [LAB]	ATKINSON DIRECTORY CO	ERIE
<u>227 STATE ST</u>			
1920	STRAUB CHAS J [BARBER]	ATKINSON DIRECTORY CO	ERIE
<u>228 STATE ST</u>			
1935	LAFAYETTE HOTEL	ATKINSON DIRECTORY CO	ERIE
1901-02	GIFFORD J J [MOTONEER]	ATKINSON DIRECTORY CO	ERIE
<u>229 STATE ST</u>			
1920	LINQUIST OLIVE MRS	ATKINSON DIRECTORY CO	ERIE
1920	LINQUIST & BAST [RESTR]	ATKINSON DIRECTORY CO	ERIE
1915-16	FALLDINE GEORGE L [RESTR]	ATKINSON DIRECTORY CO	ERIE
1915-16	LINQUIST ELMER A	ATKINSON DIRECTORY CO	ERIE
1915-16	CARTER JAMES	ATKINSON DIRECTORY CO	ERIE
1909-10	RAESMER CHARLEMAQUE [SHOEMKR]	ATKINSON DIRECTORY CO	ERIE
1909-10	STOCK OTIS M [BARTNDR]	ATKINSON DIRECTORY CO	ERIE

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1909-10	LYONS MARGARET (WID JOHN)	ATKINSON DIRECTORY CO	ERIE
1909-10	WYMER WM [WAITER RMS]	ATKINSON DIRECTORY CO	ERIE
1909-10	BLAKE CLARENCE [WAITER RMS]	ATKINSON DIRECTORY CO	ERIE
1906-07	VACANT	ATKINSON DIRECTORY CO	ERIE
1901-02	VACANT	ATKINSON DIRECTORY CO	ERIE

230 STATE ST

1955	LAFAYETTE HOTEL	ATKINSON DIRECTORY CO	ERIE
1955	X [3D INTS]	ATKINSON DIRECTORY CO	ERIE
1949-50	SZUBA MABEL G	ATKINSON DIRECTORY CO	ERIE
1945	LAFAYETTE HOTEL	ATKINSON DIRECTORY CO	ERIE
1940	LAFAYETTE HOTEL	ATKINSON DIRECTORY CO	ERIE
1940	STEWART HARRY A	ATKINSON DIRECTORY CO	ERIE
1935	SOCONY VACUUM OIL CO [FILLING STA]	ATKINSON DIRECTORY CO	ERIE
1935	X [THIRD INTS]	ATKINSON DIRECTORY CO	ERIE
1930	LAFAYETTE HOTEL	ATKINSON DIRECTORY CO	ERIE
1930	MCKEEN HAROLD L	ATKINSON DIRECTORY CO	ERIE
1930	X [THIRD INTS]	ATKINSON DIRECTORY CO	ERIE
1901-02	MAHER ELLA MRS [WID]	ATKINSON DIRECTORY CO	ERIE

231 STATE ST

1995	PARKING LOT	R.L. POLK & CO.	ERIE
1995	X [E 3D ST INTS]	R.L. POLK & CO.	ERIE
1995	Y [W 3D ST INTS]	R.L. POLK & CO.	ERIE
1990	PARKIG LOT	R.L. POLK & CO.	ERIE
1990	X [E 3D ST BEGINS]	R.L. POLK & CO.	ERIE
1990	Y [W 3D ST BEGINS]	R.L. POLK & CO.	ERIE

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1984	HAMOT MEDICAL CENTER (ACCT OFC)	R.L. POLK & CO.	ERIE
1984	MERRIL LYNCH PIERCE FENNER & SMITH INC [STOCK BROKERS]	R.L. POLK & CO.	ERIE
1984	VILLELLA DOUGHLAS J [OPTOM]	R.L. POLK & CO.	ERIE
1979-80	HAMOT MEDICAL CENTER (ACCT OFC)	ATKINSON DIRECTORY CO	ERIE
1979-80	HAMOT MEDICAL CENTER [PAYROLL PURCH & CREDIT UNION]	ATKINSON DIRECTORY CO	ERIE
1979-80	HAMOT MEDICAL CENTER (FAMILY PRACTICE OFC)	ATKINSON DIRECTORY CO	ERIE
1979-80	X [E 3D ST BEGINS]	ATKINSON DIRECTORY CO	ERIE
1979-80	Y [W 3D ST BEGINS]	ATKINSON DIRECTORY CO	ERIE
1975	DENTAL HEALTH CENTER	ATKINSON DIRECTORY CO	ERIE
1975	HAMOT MEDICAL CENTER (ACCT OFC)	ATKINSON DIRECTORY CO	ERIE
1975	HAMOT MEDICAL CENTER [PAYROLL PURCH & CREDIT UNION]	ATKINSON DIRECTORY CO	ERIE
1975	HAMOT MEDICAL CENTER (FAMILY PRACTICE OFC)	ATKINSON DIRECTORY CO	ERIE
1975	X [3D ST INTS]	ATKINSON DIRECTORY CO	ERIE
1970	HAMOT HOSPITAL MENTAL HEALTH OUTPATIENT CLINIC	ATKINSON DIRECTORY CO	ERIE
1965	ERIE COACH CO	ATKINSON DIRECTORY CO	ERIE
1965	LAKE LINES INC	ATKINSON DIRECTORY CO	ERIE
1965	SEAWAY COACH LINES	ATKINSON DIRECTORY CO	ERIE
1965	X [3D INTS]	ATKINSON DIRECTORY CO	ERIE
1960	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1960	X [3D INTS]	ATKINSON DIRECTORY CO	ERIE
1920	DRYFOOD ADOLPH [CONFR]	ATKINSON DIRECTORY CO	ERIE
1920	RILEY PATRICK	ATKINSON DIRECTORY CO	ERIE
1920	X [THIRD INTS]	ATKINSON DIRECTORY CO	ERIE

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1915-16	DRYFOOS ADOLPH V [NEWS]	ATKINSON DIRECTORY CO	ERIE
1915-16	RILEY PATRICK H	ATKINSON DIRECTORY CO	ERIE
1915-16	X [300 THIRD ST INTS]	ATKINSON DIRECTORY CO	ERIE
1909-10	DRYFOOS ADOLPH [NEWS]	ATKINSON DIRECTORY CO	ERIE
1909-10	BOLKEY LEONARD	ATKINSON DIRECTORY CO	ERIE
1909-10	X [300 THIRD ST INTS]	ATKINSON DIRECTORY CO	ERIE
1906-07	ADOLPH DRYFOOS [GRO]	ATKINSON DIRECTORY CO	ERIE
1906-07	GEORGE BRALEY [CLK H 2D FL]	ATKINSON DIRECTORY CO	ERIE
1906-07	X [300 ST INTS]	ATKINSON DIRECTORY CO	ERIE
<u>232 STATE ST</u>			
1949-50	WICK DOMINIC [GAS STA]	ATKINSON DIRECTORY CO	ERIE
1949-50	X [3D INTS]	ATKINSON DIRECTORY CO	ERIE
1945	HAMILTON CLIFFORD [FILLING STA]	ATKINSON DIRECTORY CO	ERIE
1945	X [THIRD INTS]	ATKINSON DIRECTORY CO	ERIE
1940	WORLUND STANLEY J [SERVICE STA]	ATKINSON DIRECTORY CO	ERIE
1940	X [THIRD INTS]	ATKINSON DIRECTORY CO	ERIE
<u>250 STATE ST</u>			
2011	TROJAN JAMES	R.L. POLK & CO.	ERIE
2011	X [E 3RD ST INTS]	R.L. POLK & CO.	ERIE
2011	Y [W 3RD ST INTS]	R.L. POLK & CO.	ERIE
2005	TROJAN JAMES	R.L. POLK & CO.	ERIE
2005	X [E 3RD ST INTS]	R.L. POLK & CO.	ERIE
2005	Y [W 3RD ST INTS]	R.L. POLK & CO.	ERIE
2000	TROJAN JAMES	R.L. POLK & CO.	ERIE
2000	X [E 3RD ST BEGINS]	R.L. POLK & CO.	ERIE
2000	Y [W 3RD ST BEGINS]	R.L. POLK & CO.	ERIE

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300 STATE ST

2019	APARTMENTS		R.L. POLK & CO.	ERIE
2019	BAYFRONT PROFESSIONAL BUILDING [OFFICE BUILDINGS & PARKS]		R.L. POLK & CO.	ERIE
2019	HAMOT HEALTH FOUNDATION INC [FOUNDATION]		R.L. POLK & CO.	ERIE
2019	HMRO [NONCLASSIFIED ESTABLISHMENTS]		R.L. POLK & CO.	ERIE
2019	INFO SYSTEMS [INFO BROKERS]		R.L. POLK & CO.	ERIE
2019	POLYMER MOLDING INC [NONCLASSIFIED ESTABLISHMENTS]		R.L. POLK & CO.	ERIE
2019	UNIVERSITY OF PITTSBURGH MED [MEDICAL CENTERS]		R.L. POLK & CO.	ERIE
2019	KAMENSKI ROBERT S MD [PHYSICIANS & SURGEONS]	1	R.L. POLK & CO.	ERIE
2019	DUNKLE ANGELA M PA [PHYSICIANS ASSISTANTS]	4	R.L. POLK & CO.	ERIE
2019	EL-ZUWAY SALEM MD [PHYSICIANS & SURGEONS]	4	R.L. POLK & CO.	ERIE
2019	ROMERO CHARLES E MD [PHYSICIANS & SURGEONS]	4	R.L. POLK & CO.	ERIE
2019	RBC WEALTH MANAGEMENT [STOCK & BOND BROKERS]	101	R.L. POLK & CO.	ERIE
2019	BAYSIDE PHARMACY [PHARMACIES]	102	R.L. POLK & CO.	ERIE
2019	ELLER ANGELA M [PHAMACIESTS]	102	R.L. POLK & CO.	ERIE
2019	HARBORVIEW INTERNAL MEDICINE [PHYSICIANS & SURGEONS]	102	R.L. POLK & CO.	ERIE
2019	GREENFIELD INTERNL MEDICINE [PHYSICIANS & SURGEONS]	103A	R.L. POLK & CO.	ERIE
2019	GRONER MORDECHAI MD [PHYSICIANS & SURGEONS]	103A	R.L. POLK & CO.	ERIE
2019	RIZWI SHOA N MD [PHYSICIANS & SURGEONS]	103A	R.L. POLK & CO.	ERIE
2019	BAYVIEW BREAST CARE [NURSES- PRACTIITONERS]	107	R.L. POLK & CO.	ERIE
2019	HAENER ALLISON E [NURSESE- PRACTITIONERS]	107	R.L. POLK & CO.	ERIE
2019	ZIMM CATARACT & LASER CTR [PHYSICIANS & SURGEONS]	200	R.L. POLK & CO.	ERIE
2019	ERIE RETINAL SURGERY INC [PHYSICIANS & SURGEONS]	201	R.L. POLK & CO.	ERIE
2019	GREGOROFF RACHEL M [NURSES- PRACTITIONERS]	201	R.L. POLK & CO.	ERIE

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2019	LUND MELISSA L [NURSES- PRACTITIONERS]	201	R.L. POLK & CO.	ERIE
2019	BAYFRONT EYECARE [OPTOMETRISTS OD]	202	R.L. POLK & CO.	ERIE
2019	CTI PHYSICAL THERAPY [PHYS THERPISTS]	202	R.L. POLK & CO.	ERIE
2019	HAND MICROSURGERY [PHYSICIANS & SURGEONS]	205	R.L. POLK & CO.	ERIE
2019	HAND & UPPER BODY REHAB CTR [REHABILITATION SSERV]	206	R.L. POLK & CO.	ERIE
2019	MARSH SPAEDER BAUR SPAEDER [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2019	STARK FIRM [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2019	TRAVIS LAW FIRM [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2019	CCP-HAMOT PEDIATRIC [PHYSICIANS & SURGEONS]	301	R.L. POLK & CO.	ERIE
2019	CHILDREN'S COMMUNITY PDTRCS [PHYSICIANS & SURGEONS]	301	R.L. POLK & CO.	ERIE
2019	YOUR PEDIATRIC CONNECTION [PHYSICIANS & SURGEONS]	301	R.L. POLK & CO.	ERIE
2019	PRESQU ISLE PLASTIC SURGERY [PHYSICIANS & SURGEONS]	302	R.L. POLK & CO.	ERIE
2019	LAB CORP [LABORATORIES-MEDICAL]	303	R.L. POLK & CO.	ERIE
2019	HILL MICHAEL P NP [NURSES- PRACTITIONERS]	304	R.L. POLK & CO.	ERIE
2019	CHRISTIAN THERESE R [NURSES- PRACTITIONERS]	400A	R.L. POLK & CO.	ERIE
2019	KELLEY KAREN [NURSES- PRACTITIONERS]	400A	R.L. POLK & CO.	ERIE
2019	SMITH JACQUELINE PA [PHYSICIANS & SURGEONS]	400A	R.L. POLK & CO.	ERIE
2019	UPMC HAMOT BARIARTIC SURG CTR [PHYSICIANS & SURGEONS]	400A	R.L. POLK & CO.	ERIE
2019	BELLOTTE JONATHAN B MD [PHYSICIANS & SURGEONS]	401	R.L. POLK & CO.	ERIE
2019	BEYER KIMBERLY D [NURSES- PRACTITIONERS]	401	R.L. POLK & CO.	ERIE
2019	CAWLEY KATHRYN M [PHYSICIANS ASSISTANTS]	401	R.L. POLK & CO.	ERIE
2019	COLON & RECTAL SURGEONSERIES [PHYSICIANS & SURGEONS]	401	R.L. POLK & CO.	ERIE
2019	X [STATE ST CONT'D]		R.L. POLK & CO.	ERIE
2019	DONATHELLISEYL LAUREN E DO [PHYSICIANS & SURGEONS]	401	R.L. POLK & CO.	ERIE

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2019	ELLER MICHAEL A PA [PHYSICIANS & SURGEONS]	401	R.L. POLK & CO.	ERIE
2019	MARINO JESSICA M [NURSES-PRACTITIONERS]	401	R.L. POLK & CO.	ERIE
2019	QUICLEY MATTHEW R MD [PHYSICIANS & SURGEONS]	401	R.L. POLK & CO.	ERIE
2019	RECTRAL & COLON SURGERY INC [PHYSICIANS & SURGEONS]	401	R.L. POLK & CO.	ERIE
2019	YOUNG ASHLEY D [PHYSICIANS ASSISTANTS]	401	R.L. POLK & CO.	ERIE
2016	BAY VIEW NEPHROLOGY [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2016	BAYFRONT PROFESSIONAL BUILDING [OFFICE BUILDINGS & PARKS]		R.L. POLK & CO.	ERIE
2016	GAUDENZIA ERIE [DRUG ABUSE ADDICTION INFO TEA]		R.L. POLK & CO.	ERIE
2016	INFO SYSTEMS [INFO BROKERS]		R.L. POLK & CO.	ERIE
2016	LAKE ERIE INTERNAL MEDICINE [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2016	M H R O [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2016	WALKER WILLIAM D		R.L. POLK & CO.	ERIE
2016	KEIM MITCHELL D AGT [INSURANCE]	101	R.L. POLK & CO.	ERIE
2016	RBC WEALTH MANAGEMENT [INVESTMENT SECURITIES]	101	R.L. POLK & CO.	ERIE
2016	BAYSIDE PHARMACY [PHARMACIES]	102	R.L. POLK & CO.	ERIE
2016	HARBORVIEW INTERNAL MEDICINE [PHYSICIANS & SURGEONS]	102	R.L. POLK & CO.	ERIE
2016	TANNER ANN	103	R.L. POLK & CO.	ERIE
2016	VASIL PAMELA M [PHYS THERAPISTS]	104	R.L. POLK & CO.	ERIE
2016	BOLTON JAN	107	R.L. POLK & CO.	ERIE
2016	HAMOT MEDICAL CTR [HOSPITALS]	107	R.L. POLK & CO.	ERIE
2016	ZIMM CATARACT & LASER CTR [PHYSICIANS & SURGEONS]	200	R.L. POLK & CO.	ERIE
2016	ERIE RETINAL SURGERY [PHYSICIANS & SURGEONS]	201	R.L. POLK & CO.	ERIE
2016	HAMOT MEDICAL CTR [PHYSICIANS & SURGEONS]	201	R.L. POLK & CO.	ERIE
2016	BAYFRONT EYECARE [OPTOMETRISTS OD]	202	R.L. POLK & CO.	ERIE
2016	HAND MICROSURGERY [PHYSICIANS & SURGEONS]	205	R.L. POLK & CO.	ERIE
2016	HAND & ARTHRITIS REHAB CTR [PHYS THERAPISTS]	206	R.L. POLK & CO.	ERIE

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2016	CTTY PHYSICAL THERAPY [PHYS THERAPISTS]	209	R.L. POLK & CO.	ERIE
2016	BASTOW LINDA	300	R.L. POLK & CO.	ERIE
2016	FELLOWS JOAN	300	R.L. POLK & CO.	ERIE
2016	MARSH SPAEDER BAUR SPAEDER [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2016	NICHOLS & MYERS PC [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2016	STARK FIRM [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2016	TRAVIS LAW FIRM [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2016	MESSER MARY ANN B PA [PHYSICIANS ASSISTANTS]	301	R.L. POLK & CO.	ERIE
2016	WIHEM WILLIAM C	301	R.L. POLK & CO.	ERIE
2016	YOUNG PEDIATRIC CONNECTION [PHYSICIANS & SURGEONS]	301	R.L. POLK & CO.	ERIE
2016	IH NEW AGE PLASTIC SURGERY [PHYSICIANS & SURGEONS]	301	R.L. POLK & CO.	ERIE
2016	HAND MICROSUERGY [PHYSICIANS & SURGEONS]	302	R.L. POLK & CO.	ERIE
2016	PRESQUE ISLE PLASTIC SURGERY [PHYSICIANS & SURGEONS]	302	R.L. POLK & CO.	ERIE
2016	WHEELING THERESA A MD [PHYSICIANS & SURGEONS]	303	R.L. POLK & CO.	ERIE
2016	HAMOT BARIATRIC SURGERY CTR [PHYSICIANS & SURGEONS]	400	R.L. POLK & CO.	ERIE
2016	UPMC BARIATRIC [NURSES PRACTITONERS]		R.L. POLK & CO.	ERIE
2011	APARTMENTS		R.L. POLK & CO.	ERIE
2011	INFO SYSTEMS [INFO BAKERS]		R.L. POLK & CO.	ERIE
2011	KRAHE A MARK DO [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2011	RBC DAIN RAUCHER [INVESTMENT SECURITIES]	101	R.L. POLK & CO.	ERIE
2011	BAYSIDE PHARMACY [PHARMACIES]	102	R.L. POLK & CO.	ERIE
2011	LAKE ERIE INTERNAL MEDICINE [PHYSICIANS & SURGEONS]	103A	R.L. POLK & CO.	ERIE
2011	CTI [PHYSICIANS & SURGEONS]	104	R.L. POLK & CO.	ERIE
2011	VASIL PAMELA M [PHYS THERAPISTS]	104	R.L. POLK & CO.	ERIE
2011	HAMOT MEDICAL CTR [HOSPITALS]	107	R.L. POLK & CO.	ERIE
2011	HAMOT WELLNESS CTR [EXERCISE & PHYS]	107	R.L. POLK & CO.	ERIE

City Directory Target Property Address

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2011	ZIMM CATARACT & LASER CTR [PHYSICIANS & SURGEONS]	200	R.L. POLK & CO.	ERIE
2011	ERIE RETINAL SURGERY [PHYSICIANS & SURGEONS]	201	R.L. POLK & CO.	ERIE
2011	BAYFRONT EYECARE [OPTOMETRISTS OD]	202	R.L. POLK & CO.	ERIE
2011	HAND MICROSURGERY [PHYSICIANS & SURGEONS]	205	R.L. POLK & CO.	ERIE
2011	OATMAN ROBIN M [NURSES PRACTITIONERS]	205	R.L. POLK & CO.	ERIE
2011	HAND & ARTHRITIS REHAB CTR [REHABILITATION SERV]	206	R.L. POLK & CO.	ERIE
2011	KROWINSKI WILLIAM J [SOCIAL WORKERS]	209	R.L. POLK & CO.	ERIE
2011	LAKEVIEW UROLOGIC SURGEONS [PHYSICIANS & SURGEONS]	210	R.L. POLK & CO.	ERIE
2011	MARSH SPAEDER BAUR SPAEDER [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2011	MESSER MARY ANN B [PHYSICIANS & SURGEONS]	301	R.L. POLK & CO.	ERIE
2011	YOUR PEDIATRIC CONNECTION [PHYSICIANS & SURGEONS]	301	R.L. POLK & CO.	ERIE
2011	ZIMMERMAN BETHANY A [PHYSICIANS ASSISTANTS]	301	R.L. POLK & CO.	ERIE
2011	BORSA JAMIE R [NURSES PRACTITIONERS]	400A	R.L. POLK & CO.	ERIE
2011	DEPPEN ROBERT J [PHYS THERAPISTS]	400A	R.L. POLK & CO.	ERIE
2011	HAMOT BARIATRIC SURGERY CTR [PHYSICIANS & SURGEONS]	400A	R.L. POLK & CO.	ERIE
2011	SULLIVAN KATHY M [NURSES PRACTITIONERS]	400A	R.L. POLK & CO.	ERIE
2005	BAYFRONT PROFESSIONAL BUILDING [OFFICE BUILDING & PARKS]		R.L. POLK & CO.	ERIE
2005	BAYSIDE PHARMACY [PHARMACIES]		R.L. POLK & CO.	ERIE
2005	HEANEY STEVEN J MD [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2005	INFO SYSTEMS [INFO & REFERRAL SERV]		R.L. POLK & CO.	ERIE
2005	KRUG CARL G		R.L. POLK & CO.	ERIE
2005	NORTHWEST PLASTIC SURGERY [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2005	VENDETTI & VENDETTI [ATTORNEYS]		R.L. POLK & CO.	ERIE
2005	WEBSTER MICHAEL L		R.L. POLK & CO.	ERIE
2005	ADVEST INC [STOCK & BOND BROKERS]	101	R.L. POLK & CO.	ERIE

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2005	BAYFRONT DIGESTIVE DISEASE [PHYSICIANS & SURGEONS]	103A	R.L. POLK & CO.	ERIE
2005	CTI PHYSICAL THERAPY [PHYS THERAPISTS]	104	R.L. POLK & CO.	ERIE
2005	HAMOT SPORTS MEDICINE [PHYSICIANS & SURGEONS]	106	R.L. POLK & CO.	ERIE
2005	HAMOT WELLNESS CTR [HEALTH CLUBS [STUDIOS/GYMNASIUM]	107	R.L. POLK & CO.	ERIE
2005	STAMM CATARACT & LASER CTR [PHYSICIANS & SURGEONS]	200	R.L. POLK & CO.	ERIE
2005	ERIE RETINAL SURGERY INC [PHYSICIANS & SURGEONS]	200A	R.L. POLK & CO.	ERIE
2005	RICART & VILLELLA [OPTOMETRISTS OD]	202	R.L. POLK & CO.	ERIE
2005	ROBERT N RICART & ASSOC [OPTOMETRISTS OD]	202	R.L. POLK & CO.	ERIE
2005	VILLELLA DOUGLAS	202	R.L. POLK & CO.	ERIE
2005	METABOLIC DISEASE ASSOC INC [PHYSICIANS & SURGEONS]	204	R.L. POLK & CO.	ERIE
2005	HAND MICROSURGERY [PHYSICIANS & SURGEONS]	205	R.L. POLK & CO.	ERIE
2005	HAND & ARTHRITIS REHAB CTR [REHABILITATION SERV]	206	R.L. POLK & CO.	ERIE
2005	JOHANSEN ROBERT W MD [PHYSICIANS & SURGEONS]	209	R.L. POLK & CO.	ERIE
2005	KROWINSKI WILLIAM J PHD [PSYCHOTHERAPISTS]	209	R.L. POLK & CO.	ERIE
2005	LAKEVIEW UROLOGIC SURGEONS [PHYSICIANS & SURGEONS]	210	R.L. POLK & CO.	ERIE
2005	ISRAELSON EDWIN N	300	R.L. POLK & CO.	ERIE
2005	MARSH SPAEDER BAUR SPAEDER [ATTORNEYS]	300	R.L. POLK & CO.	ERIE
2005	YOUR PEDIATRIC CONNECTION [PHYSICIANS & SURGEONS]	301	R.L. POLK & CO.	ERIE
2005	GALEY STEPHANIE M	301H	R.L. POLK & CO.	ERIE
2005	LAKE ERIE ORTHOPAEDICS [PHYSICIANS & SURGEONS]	301H	R.L. POLK & CO.	ERIE
2005	ORTHOPAEDIC & SPORTS MED-ERIE [PHYSICIANS & SURGEONS]	400A	R.L. POLK & CO.	ERIE
2000	AESTHETIC SURGERY CENTER [PHYS]		R.L. POLK & CO.	ERIE
2000	BAKER GRAEME C [PHYS][R.L. POLK & CO.	ERIE
2000	BAYFRONT DIGESTIVE DISEASE ASSOCIATES [ATTY]		R.L. POLK & CO.	ERIE
2000	BAYFRONT PROFESSIONAL BUILDING		R.L. POLK & CO.	ERIE

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2000	BAYSIDE PHARMACY & COMPANY SUPPLY [DRUG STORES]		R.L. POLK & CO.	ERIE
2000	CHUNG CHIN CLEANING [PHUYS]		R.L. POLK & CO.	ERIE
2000	CTI PHYSICAL THERAPY [PHYSICAL THERAPISTS]		R.L. POLK & CO.	ERIE
2000	DAVIDSON BLAINE R & LISA		R.L. POLK & CO.	ERIE
2000	FRYLING JAMES R ATTORNEY [LEGAL SERV]		R.L. POLK & CO.	ERIE
2000	GUSTIN THOMAS A [PHYS]		R.L. POLK & CO.	ERIE
2000	HAMOPT DIABETES CARE CENTER [NURSING PERSONAL CARE]		R.L. POLK & CO.	ERIE
2000	HINES JOSPEH H OFFICCE		R.L. POLK & CO.	ERIE
2000	KROWINSKI WILIAM J [ATTY]		R.L. POLK & CO.	ERIE
2000	LEVY DAVID J [PHYS]		R.L. POLK & CO.	ERIE
2000	MORGAN ELSIE		R.L. POLK & CO.	ERIE
2000	PHELPS WILLIAM R DOCTOR OF MEDICIEN [PHYS]		R.L. POLK & CO.	ERIE
2000	REGIONAL MEDICAL SERVICES [MED CTRS]		R.L. POLK & CO.	ERIE
2000	SINGH ASIM R [PHYS]		R.L. POLK & CO.	ERIE
2000	VILLELLA DOUGHLAS OPTMTRST [OPTOMETRIST]		R.L. POLK & CO.	ERIE
2000	MERRILL LYNCH PIEREC FENNER & SMITH 2 [SEC BROKER /DLRS]		R.L. POLK & CO.	ERIE
2000	TRAC OCCUPATIONAL HEALTH [PHYSICAL 100 THERAPIST]		R.L. POLK & CO.	ERIE
2000	ADVEST [SEC BROKERS /DLRS]	101	R.L. POLK & CO.	ERIE
2000	ERIE RETINAL SURGERY [OFCS/.CLINICS 200A MED DOCTO]		R.L. POLK & CO.	ERIE
2000	WEBER MURPHY FOIX [ARHCT SERV]	200	R.L. POLK & CO.	ERIE
2000	HAND MICRO SURGERY & RECONSTRCTIVE ORTHPDCS LLP [PHYS]	205	R.L. POLK & CO.	ERIE
2000	HAND & ARTHRITIS REHABILITATION CENTER [PHYSICAL THERAPISTS]	206	R.L. POLK & CO.	ERIE
2000	JOHANSEN ROBERT W [OFCS /CLINICS MED DOCTO]	209	R.L. POLK & CO.	ERIE
2000	LAKEVIEW UROILOGY SURGEONS [PHYS]	210	R.L. POLK & CO.	ERIE
2000	LAKE ERIE ORTHOPAEDICS [PHYS]	301H	R.L. POLK & CO.	ERIE
1995	BAYFRONT PROFESSIONAL BLDG		R.L. POLK & CO.	ERIE
1995	ROOMS		R.L. POLK & CO.	ERIE

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1995	BAYSIDE PHARMACY		R.L. POLK & CO.	ERIE
1995	X [STATE ST CONT'D]		R.L. POLK & CO.	ERIE
1995	GREAT LAKES HOME HEALTH CARE SERVICES [HOME HLTH CARE]	100B	R.L. POLK & CO.	ERIE
1995	PHYSICIAN BILLING SERVICES	100A	R.L. POLK & CO.	ERIE
1995	ADVEST INC [INVESTMENTS]	101	R.L. POLK & CO.	ERIE
1995	BAYFRONT DIGESTIVE DISEASES ASSOCIATES	103A	R.L. POLK & CO.	ERIE
1995	HAMOT DIABETES EDUCATION CENTER [PATIENT THERAPISTS]	103C	R.L. POLK & CO.	ERIE
1995	HAMOT MARKETING & COMMUNIATIONS [OFC]	104	R.L. POLK & CO.	ERIE
1995	HAMOT WELLNESS CENTER [PHYSICAL EDUC]	106	R.L. POLK & CO.	ERIE
1995	MERRILL LYNCH PIERCE FENNER & SMITH INC [STOCK BROKERS]	107	R.L. POLK & CO.	ERIE
1995	WEBER MURPHY FOX [ARCHTS]	200	R.L. POLK & CO.	ERIE
1995	ERIE RENINAL SURGERY INC [EYE SURGERY]	200A	R.L. POLK & CO.	ERIE
1995	RICARD ROBT N [OPTOM]	202	R.L. POLK & CO.	ERIE
1995	LEITENBERGER ROBT E [OPTOM]	202	R.L. POLK & CO.	ERIE
1995	METABOLIC DISEASE ASSOC INC [PHYS]	202	R.L. POLK & CO.	ERIE
1995	CERMAK MARY BETH [PHYS]	204	R.L. POLK & CO.	ERIE
1995	LUBAHN JOHN D [PHYS]	205	R.L. POLK & CO.	ERIE
1995	HOOD JOHN M [PHYS]	205	R.L. POLK & CO.	ERIE
1995	HAND & ARTHRITIS REHABILITATION CENTER	205	R.L. POLK & CO.	ERIE
1995	PHELPS WILLIAM R [PHYS]	206	R.L. POLK & CO.	ERIE
1995	MC ALEER DONALD [PSYCHOLOGISTS]	208	R.L. POLK & CO.	ERIE
1995	GUSTIN THOS A [PHYS]	208	R.L. POLK & CO.	ERIE
1995	JOHANSEN ROBT W [PHYS]	209	R.L. POLK & CO.	ERIE
1995	KROWINSKI WILLIAM J [PHYS]	209	R.L. POLK & CO.	ERIE
1995	LAKEVIEW UROLOGIC SURGEONS	210	R.L. POLK & CO.	ERIE
1995	MARSH SPEADER BAUR SPAEDER & SCHAAF [ATTYS]	300	R.L. POLK & CO.	ERIE
1995	DALTON BRIAN E [PHYS]	301E	R.L. POLK & CO.	ERIE
1995	PINAKINI SHIVDE S [PHYS]	301B	R.L. POLK & CO.	ERIE
1995	GARCIA GERALD D [PHYS]	301C	R.L. POLK & CO.	ERIE

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1995	HEANEY STEVEN J [PHYS]	301E	R.L. POLK & CO.	ERIE
1995	GREAT LAKES HOME HEALTH CARE	301G	R.L. POLK & CO.	ERIE
1995	GREAT LAKES HOME HEALTHCARE (ADDL SP)	301H	R.L. POLK & CO.	ERIE
1995	BAYVIEW NEPHROLOGY INC	302	R.L. POLK & CO.	ERIE
1995	BAKER GRAEME C [PHYS]	303	R.L. POLK & CO.	ERIE
1995	HAMOT SPORTS MEDICINE	400A	R.L. POLK & CO.	ERIE
1995	HAMOT BUSINESS OFFICE		R.L. POLK & CO.	ERIE
1990	BAYFRONT PROFESSIONAL BLDG		R.L. POLK & CO.	ERIE
1990	ROOMS		R.L. POLK & CO.	ERIE
1990	O DLEI [DELICATESSEN]	1ST FL	R.L. POLK & CO.	ERIE
1990	TRAVELERS INSURANCE	100	R.L. POLK & CO.	ERIE
1990	CRONK DAVID INSURANCE		R.L. POLK & CO.	ERIE
1990	HAIBACH GARY B & ASSOCS INC		R.L. POLK & CO.	ERIE
1990	DOYLE PEFFER & PARLAK INS CO		R.L. POLK & CO.	ERIE
1990	ADVEST INC INVESTMENT	101	R.L. POLK & CO.	ERIE
1990	BAYFRONT DIGESTIVE DISEASE	103A	R.L. POLK & CO.	ERIE
1990	CLINICAL THERAPEUTICS INC [PHYSICAL THERAPISTS]	104	R.L. POLK & CO.	ERIE
1990	HAMAT WELNESS CENTER	107	R.L. POLK & CO.	ERIE
1990	MERRIL LYUNCH PIERCE FENNER & SMITH INC [STOCK BROKERS]	2D FL	R.L. POLK & CO.	ERIE
1990	WEBER MURPHY FOX [ARCHTS]	200	R.L. POLK & CO.	ERIE
1990	ERIE RETINAL SUGERY INC [EYE SURGERY]	200A	R.L. POLK & CO.	ERIE
1990	HANSON INC	201	R.L. POLK & CO.	ERIE
1990	RICART ROBT N [OPTOM]	202	R.L. POLK & CO.	ERIE
1990	LEITENBERGER ROBT E [OPTOM]	202	R.L. POLK & CO.	ERIE
1990	VILLELLA DOUGHLAS J [OPTOM]	202	R.L. POLK & CO.	ERIE
1990	BALES CHARLES R [PHYS]	203	R.L. POLK & CO.	ERIE
1990	HAND & ARHRISTTIS REHBALITTATION CENTER [PYS]	207	R.L. POLK & CO.	ERIE
1990	GUSTIN THOS A [PHYS]	208	R.L. POLK & CO.	ERIE
1990	JOHANMNESEN ROBT W [PHYS]	209	R.L. POLK & CO.	ERIE
1990	KROWINSKI WILLIAM [PHYS]	209	R.L. POLK & CO.	ERIE
1990	LEKAVIRE UROLOGY SYRGEONS [PHYS]	210	R.L. POLK & CO.	ERIE

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1990	MARSH SPAEFDER BAU SPAEDER & SCHAAF [LWYR]	300	R.L. POLK & CO.	ERIE
1990	BAKER GRAEME C [PHYS]	303	R.L. POLK & CO.	ERIE
1990	KOSENKO ALEXANDER [PHYS]	303	R.L. POLK & CO.	ERIE
1990	BARZYK PETER P II [PHYS]	303	R.L. POLK & CO.	ERIE
1990	LUSTIG KEITH A [PHYS]	304	R.L. POLK & CO.	ERIE
1990	HAMOT BUSINES OFFICE	4TH FL	R.L. POLK & CO.	ERIE
1984	SUITES		R.L. POLK & CO.	ERIE
1984	HAMOT WELNEES CENTER DIET & PHYS FITNESS CNTR]	1ST FL	R.L. POLK & CO.	ERIE
1984	TRAVERLESRS INSURACEN COMPANIES THE	100	R.L. POLK & CO.	ERIE
1984	CRONK DAVID INSURANCE		R.L. POLK & CO.	ERIE
1984	HAIBECK GARY B & ASSOCIATE [INS	100	R.L. POLK & CO.	ERIE
1984	DOYLE PEFFER & PARLAK INSURANCE CO [TRAVEELERS INS CO AGTS]	100	R.L. POLK & CO.	ERIE
1984	ADVEST INC [INVESTMENTS]	101	R.L. POLK & CO.	ERIE
1984	BAYFRONT DIGESTIVE DISEASE [PHYS]	103A	R.L. POLK & CO.	ERIE
1984	GERIATRIC PROGRAMMING & ELDERMED [MED PROG FOOR ELDERLY]	103	R.L. POLK & CO.	ERIE
1984	WEBER MURPHY FOX [ARCHTS]	200	R.L. POLK & CO.	ERIE
1984	ERIE RETINAL SURGERY INC [EYE SURGERY]	200A	R.L. POLK & CO.	ERIE
1984	HANSON & CUNNINGHAM INC	201	R.L. POLK & CO.	ERIE
1984	LEITENBERGER ROBT E [OPTOM]	202	R.L. POLK & CO.	ERIE
1984	METABOLIC DISEASE ASSOC INC [PHYS]	204	R.L. POLK & CO.	ERIE
1984	LUBAHN JOHN D [PHYS]	205	R.L. POLK & CO.	ERIE
1984	HAND & ARTHRITIS REHABILITATION CENTER	207	R.L. POLK & CO.	ERIE
1984	GUSTIN THOS A [PHYS]	208	R.L. POLK & CO.	ERIE
1984	JOHNASEN ROBT W [PHYS]	209	R.L. POLK & CO.	ERIE
1984	MARKS JERYR L [PHYS]	209	R.L. POLK & CO.	ERIE
1984	LAKEVIEW UROLOGY SURGEONS	210	R.L. POLK & CO.	ERIE
1984	MARSH SPAEFDER BAUR SPAEDER & SCHAAF [LWYRS]	300	R.L. POLK & CO.	ERIE
1984	BAKER GRAEMER C [PHYS]	303	R.L. POLK & CO.	ERIE
1984	HAMOT BUSINNES OFFICE	4TH FL	R.L. POLK & CO.	ERIE

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301 STATE ST

2011	CLARK STEPHEN		R.L. POLK & CO.	ERIE
1995	PUBLIC PARKING LOT		R.L. POLK & CO.	ERIE
1995	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
1995	Y [W 4TH ST INTS]		R.L. POLK & CO.	ERIE
1990	PUBLIC PARKING LOT		R.L. POLK & CO.	ERIE
1990	X [E 4TH ST BEGINS]		R.L. POLK & CO.	ERIE
1990	Y [W 4TH ST BEGINS]		R.L. POLK & CO.	ERIE
1984	PUBLIC PARKIGN LOT		R.L. POLK & CO.	ERIE
1984	BALES CHARLES R [PHYS]	203	R.L. POLK & CO.	ERIE
1984	X [E 4TH ST BEGINS]		R.L. POLK & CO.	ERIE
1984	Y [W 4TH ST BEGINS]		R.L. POLK & CO.	ERIE
1975	HOME RESTAURANT		ATKINSON DIRECTORY CO	ERIE
1970	HOME RESTAURANT		ATKINSON DIRECTORY CO	ERIE
1970	ALESSI'S CHUCK BARBER SHOP		ATKINSON DIRECTORY CO	ERIE
1970	MARYLAND APARTMENTS		ATKINSON DIRECTORY CO	ERIE
1965	HOME RESTR		ATKINSON DIRECTORY CO	ERIE
1960	HOME RESTR		ATKINSON DIRECTORY CO	ERIE
1955	HOME RESTR		ATKINSON DIRECTORY CO	ERIE
1955	HOME RESTAURANTS (OFC)		ATKINSON DIRECTORY CO	ERIE
1949-50	HOME RESTAURANT		ATKINSON DIRECTORY CO	ERIE
1949-50	WELSH RICHD		ATKINSON DIRECTORY CO	ERIE
1945	HOEM RESTAURANT		ATKINSON DIRECTORY CO	ERIE
1940	HOME RESTAURANT		ATKINSON DIRECTORY CO	ERIE
1940	WELSH RICHD J		ATKINSON DIRECTORY CO	ERIE
1935	HOME RESTAURANT		ATKINSON DIRECTORY CO	ERIE

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1935	WELSCH RICHD J	ATKINSON DIRECTORY CO	ERIE
1930	HOME RESTAURANT	ATKINSON DIRECTORY CO	ERIE
1930	DUNDON CHAS P [FURN RMS]	ATKINSON DIRECTORY CO	ERIE
1925-26	HOME RESTAURANT	ATKINSON DIRECTORY CO	ERIE
1920	WELSH RICHARD J [SOFT DRINKS]	ATKINSON DIRECTORY CO	ERIE
1915-16	WELSH MRS ELLEN M [SALOON]	ATKINSON DIRECTORY CO	ERIE
1909-10	WELSH ELLEN M (WID JOHN) [SAL]	ATKINSON DIRECTORY CO	ERIE
1909-10	WELSH WM J [BARTNDR]	ATKINSON DIRECTORY CO	ERIE
1909-10	WELSH CLARA E [BKKPR]	ATKINSON DIRECTORY CO	ERIE
1909-10	WELSH IRENE M [TCHR]	ATKINSON DIRECTORY CO	ERIE
1909-10	WELSH ISABELLE M	ATKINSON DIRECTORY CO	ERIE
1909-10	WELSH VERONICA M	ATKINSON DIRECTORY CO	ERIE
1909-10	SWEET ISAAC [CAPT RMS]	ATKINSON DIRECTORY CO	ERIE
1906-07	ELLEN M WELSH [WID S&H]	ATKINSON DIRECTORY CO	ERIE
1906-07	WM J WELSCH [BARTNDR]	ATKINSON DIRECTORY CO	ERIE
1906-07	CLARA E WELSH [BKKPR]	ATKINSON DIRECTORY CO	ERIE
1906-07	IRENE M WELSH [TCHR]	ATKINSON DIRECTORY CO	ERIE
1906-07	ISABELLE M WELSH	ATKINSON DIRECTORY CO	ERIE
1906-07	VERONICA M WELSH	ATKINSON DIRECTORY CO	ERIE
1906-07	MRS MARY J GROVE	ATKINSON DIRECTORY CO	ERIE
1906-07	ISAAC SWERT [CAPT]	ATKINSON DIRECTORY CO	ERIE
1901-02	WELSH JOHN PRESQUE [ISLE HTL]	ATKINSON DIRECTORY CO	ERIE
1901-02	WELSH RICHARD J [BARTNDR]	ATKINSON DIRECTORY CO	ERIE

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1901-02	WELSH WM J [FISHERMAN]		ATKINSON DIRECTORY CO	ERIE
1901-02	WELSH IDA MISS		ATKINSON DIRECTORY CO	ERIE
1901-02	WELSH ANNIE MISS [DRSMKR]		ATKINSON DIRECTORY CO	ERIE
1901-02	WELSH CLARA MISS		ATKINSON DIRECTORY CO	ERIE
1901-02	WELSH FLORENCE MISS		ATKINSON DIRECTORY CO	ERIE
1901-02	SWEET ISAAC [CAPT FISH TUG]		ATKINSON DIRECTORY CO	ERIE

305 STATE ST

1979-80	THE MINNESOTA SHOE REPAIR		ATKINSON DIRECTORY CO	ERIE
1979-80	MARYLAND APARTMENTS		ATKINSON DIRECTORY CO	ERIE

319 STATE ST

2005	MARKETPLACE GRILL [RESTAURANTS]		R.L. POLK & CO.	ERIE
2000	MARKETPLACE GRILL [GRILL]	A	R.L. POLK & CO.	ERIE

328 STATE ST

2000	ALEMANY ERICA		R.L. POLK & CO.	ERIE
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333 STATE ST

2019	ADVANCED PAIN MEDICINE GRILL [RESTAURANTS]		R.L. POLK & CO.	ERIE
2019	ELAMIGO MEXICAN GRILL [RESTAURANTS]		R.L. POLK & CO.	ERIE
2019	LISZKA ANNE-MARIE D [PHYSICIANS & SURGEONS]	100	R.L. POLK & CO.	ERIE
2019	FERGUSON & HOLDNACK [FEDERAL GOVERNMENT CONTRACTORS]	105	R.L. POLK & CO.	ERIE
2019	U PICK 6 TAP HOUSE [RESTAURANTS]	110	R.L. POLK & CO.	ERIE
2019	JUSTINE M SCHOBER MD [PHYSICIANS & SURGEONS]	201	R.L. POLK & CO.	ERIE
2019	SCHOBER JUSTINE M	201	R.L. POLK & CO.	ERIE
2019	CLELLAND KEITH H [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2019	DAMON-HOPKINS LAW [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2019	HEASLEY DEANNA L [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2019	LAW OFFICES [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2019	BAY HARBOR FAMILY MEDICINE [PHYSICIANS & SURGEONS]	204	R.L. POLK & CO.	ERIE

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2019	HANSON CARL L [PHYSICIANS ASSISTANTS]	204	R.L. POLK & CO.	ERIE
2019	ROBINSON PAIGE M PA [PHYSICIANS ASSISTANTS]	204	R.L. POLK & CO.	ERIE
2019	DERMARCO DAVID J & LISA G	310	R.L. POLK & CO.	ERIE
2019	MODERN RN DENTAL GROUP [DENTISTS]	310	R.L. POLK & CO.	ERIE
2019	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
2019	Y [W 4TH ST INTS]		R.L. POLK & CO.	ERIE
2016	ADVANCED PAIN MEDICINE [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2016	BAY HARBOR FAMILY MEDICINE [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2016	EXPEDITORS INTERNATIONAL [FREGIHT FORWARDING]		R.L. POLK & CO.	ERIE
2016	MODERN TOOL REALTY [REAL ESTATE]		R.L. POLK & CO.	ERIE
2016	U PICK TAP HOUSE [RESTAURANTS]		R.L. POLK & CO.	ERIE
2016	BROWN MAUREEN RN [NURSES & NURSES REGISTRIES]	100	R.L. POLK & CO.	ERIE
2016	LISZKA ANNE MARIE DO [PHYSICIANS & SURGEONS]	100	R.L. POLK & CO.	ERIE
2016	TEYGART NATALIE MD [PHYSICIANS & SURGEONS]	100	R.L. POLK & CO.	ERIE
2016	FERGUSON & HOLDNACK [COURT & CONVENTION REPORTERS]	104	R.L. POLK & CO.	ERIE
2016	N W PHYSCIAN ASSOC [PODIATRISTS]	104	R.L. POLK & CO.	ERIE
2016	BITENKOFF JEFF	119	R.L. POLK & CO.	ERIE
2016	CARSTATER SUZANNE M PA [PHYSICIANS ASSISTANTS]	201	R.L. POLK & CO.	ERIE
2016	SCHOBER JUSTINE M MD [PHYSICIANS & SURGEONS]	201	R.L. POLK & CO.	ERIE
2016	CLELLADN KEITH H [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2016	HEASLEY DENNA L [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2016	JOHNSON JR WAYNE G [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2016	LAW OFFICER [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2016	MIKIELSKI LAURIE A [ATTORNEYS]	203	R.L. POLK & CO.	ERIE
2016	CENTER FOR BREEASY HEALTH [PHYSICIANS & SURGEONS]	206	R.L. POLK & CO.	ERIE
2016	CASELLA SHAWN D	310	R.L. POLK & CO.	ERIE
2016	CASELLA DEMARCO J	310	R.L. POLK & CO.	ERIE
2016	DEMARCO DAVID J & LISA G	310	R.L. POLK & CO.	ERIE

City Directory Target Property Address

State St, Erie, PA 16501

2016	MODERN DENTAL GROUP [DENTISTS]	210	R.L. POLK & CO.	ERIE
2016	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
2016	Y [W 4TH ST INTS]		R.L. POLK & CO.	ERIE
2011	APARTMENTS		R.L. POLK & CO.	ERIE
2011	BAY HARBOR FAMILY MEDICINE [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2011	MODERN TOOL REALTY [REAL ESTATE]		R.L. POLK & CO.	ERIE
2011	NEW HOPE ADDICTION MEDICINE [ALCOHOLISM INFO]		R.L. POLK & CO.	ERIE
2011	NORTHWEST PHYSICIANS ASOSC [PHYSICIANS & SURGEONS]		R.L. POLK & CO.	ERIE
2011	SELECT SOURCE [HUMAN RESOURCE CONSULTANTS]		R.L. POLK & CO.	ERIE
2011	DR ANNE MARIE LISZKA [NURSES & NURSES REGISTRIES]	100	R.L. POLK & CO.	ERIE
2011	LISZKA ANNE MARIE DO [PHYSICIANS & SURGEONS]	100	R.L. POLK & CO.	ERIE
2011	CORRUPAK INC [CONVERTED PAPER]	121	R.L. POLK & CO.	ERIE
2011	CARSTER SUZANNE M [NURSES PRACTITONERS]	201	R.L. POLK & CO.	ERIE
2011	SCHOEBER JUSTINE M MD [PHYSICIANS & SURGEONS]	201	R.L. POLK & CO.	ERIE
2011	ROUTE 1A INC [ADVERTISIGN]	203	R.L. POLK & CO.	ERIE
2011	CENTER OF BREAST HEALTH [PHYSICIANS & SURGEONS]	206A	R.L. POLK & CO.	ERIE
2011	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
2011	MODERN DENTAL GROUP [DENTISTS]	310	R.L. POLK & CO.	ERIE
2011	Y [W 4TH ST INTS]		R.L. POLK & CO.	ERIE
2005	ROUTE 1A INC [ADVERTISING]		R.L. POLK & CO.	ERIE
2005	WHEELING THERESA A		R.L. POLK & CO.	ERIE
2005	CORRUPAK INC [PACKAGING SERV]	121	R.L. POLK & CO.	ERIE
2005	SCHOBBER JUSTINE M	201	R.L. POLK & CO.	ERIE
2005	SCHOBBER JUSTINE M MD [PHYSICIANS & SURGEONS]	201	R.L. POLK & CO.	ERIE
2005	CAMPITELLI NICHOLAS DPM [PODIATRISTS]	204	R.L. POLK & CO.	ERIE
2005	NORTHWEST PHYSICIANS ASSOC [PHYSICIANS & SURGEONS]	204	R.L. POLK & CO.	ERIE
2005	TRI STATE NEUROLOGICAL SURGEON [PHYSICIANS & SURGEONS]	206	R.L. POLK & CO.	ERIE

City Directory Target Property Address

State St, Erie, PA 16501

2005	CASELLA SHAWN D	310	R.L. POLK & CO.	ERIE
2005	DE MARCO JAGEMAN & CASELLA [DENTISTS]	310	R.L. POLK & CO.	ERIE
2005	JAGEMAN JEFF A	310	R.L. POLK & CO.	ERIE
2005	X [E 4TH ST INTS]		R.L. POLK & CO.	ERIE
2005	Y [W 4TH ST INTS]		R.L. POLK & CO.	ERIE
2000	BEDWELL SCOTT H [PHYS]		R.L. POLK & CO.	ERIE
2000	CORRUPAK [CORRUGATED/SOLID FIBER]		R.L. POLK & CO.	ERIE
2000	GLASS NEAL R [PHYS]		R.L. POLK & CO.	ERIE
2000	PETERS STEPHANIE M		R.L. POLK & CO.	ERIE
2000	WEDGEWOOD INVESTORS [IVNESTMENT ADVICE]		R.L. POLK & CO.	ERIE
2000	FIRT UNION SECURITIES [STOCK BROKERS /DLRS]	100	R.L. POLK & CO.	ERIE
2000	SCHOBER JUSTINE [PHYS]	201	R.L. POLK & CO.	ERIE
2000	MCGEE DAVIDS M MODERN TOOL SQUARE [PHYS]	202	R.L. POLK & CO.	ERIE
2000	NORTHWEST PHYSICIAN ASSOCIATES [INTERNAL]	204	R.L. POLK & CO.	ERIE
2000	DE MARCO JAGEMAN & CASELLA [DENTL CLINIC]	310	R.L. POLK & CO.	ERIE
2000	X [E 4TH ST BEGINS]		R.L. POLK & CO.	ERIE
2000	Y [W 4TH ST BEGINS]		R.L. POLK & CO.	ERIE
1995	MODERN TOOL SQUARE APARTMENT		R.L. POLK & CO.	ERIE
1995	MARKETPLACE GRILL [RESTR & BAR]		R.L. POLK & CO.	ERIE
1995	A B C HOME HEALTH INC [HM HLTH CARE]	100	R.L. POLK & CO.	ERIE
1995	BRYDON JAN K [PHYS]	101	R.L. POLK & CO.	ERIE
1995	LYNCH & HAGERTY DESIGN	103	R.L. POLK & CO.	ERIE
1995	SMITH KLINE BEECHAM [CLINICAL LAB]	104	R.L. POLK & CO.	ERIE
1995	SCHOBER JUSTINE M [PHYS]	201	R.L. POLK & CO.	ERIE
1995	MC GEE DAVID N [PHYS]	202	R.L. POLK & CO.	ERIE
1995	DE MARCO DAVID J [DENTIST]	310	R.L. POLK & CO.	ERIE
1995	JAGEMAN JEFF A [DENTIST]	310	R.L. POLK & CO.	ERIE
1995	CASELLA SHAWN D [DENTIST]	310	R.L. POLK & CO.	ERIE
1995	X [W 4TH ST INTS]		R.L. POLK & CO.	ERIE
1990	MODERN TOOL SQUARE		R.L. POLK & CO.	ERIE
1990	MARKETPLACE GRILL [RESTR & BAR]		R.L. POLK & CO.	ERIE

City Directory Target Property Address

State St, Erie, PA 16501

1990	VACANT	1ST FL	R.L. POLK & CO.	ERIE
1990	VACANT	1ST FL	R.L. POLK & CO.	ERIE
1990	VACANT	1ST FL	R.L. POLK & CO.	ERIE
1990	VACANT	1ST FL	R.L. POLK & CO.	ERIE
1990	VACANT	1ST FL	R.L. POLK & CO.	ERIE
1990	TICKLES DLEI	1ST FL	R.L. POLK & CO.	ERIE
1990	VACANT	1ST FL	R.L. POLK & CO.	ERIE
1990	VACANT	2D FL	R.L. POLK & CO.	ERIE
1990	VACANT	202A	R.L. POLK & CO.	ERIE
1990	DE MARCO DAVID J [DENTIST]	310	R.L. POLK & CO.	ERIE
1990	JAGEMAN JEFF A [DENTIST]	310	R.L. POLK & CO.	ERIE
1984	MODERN TOOL SQUARE		R.L. POLK & CO.	ERIE
1984	RACHES [RESTR & BAR]		R.L. POLK & CO.	ERIE
1984	ANTIQUE SHOP THE	1ST FL	R.L. POLK & CO.	ERIE
1984	CHAPTER 57 [SLS CARDS CERAMICS]	1ST FL	R.L. POLK & CO.	ERIE
1984	GIFT OF LOVE BY JUDY [GFT SHOP]	1ST FL	R.L. POLK & CO.	ERIE
1984	GREEN MACHINE INC THE [GIFTS PLANTS & FLOWERS]	1ST FL	R.L. POLK & CO.	ERIE
1984	J & J TOURING CO [TRACVEL AGCY]	1ST FL	R.L. POLK & CO.	ERIE
1984	MODERN TOOL COOFEE & TEA CO	1ST FL	R.L. POLK & CO.	ERIE
1984	MODENR TOOL SMOKE SHOP	1ST FL	R.L. POLK & CO.	ERIE
1984	TOAD BAKERY [BAKE SHOP]	1ST FL	R.L. POLK & CO.	ERIE
1984	THOMSON'S HOUSE OF EDIBLES [PRODUCE & GORMET FOOD]	1ST FL	R.L. POLK & CO.	ERIE
1984	UPPER CRUST THE [BAKE SHOP]	1ST FL	R.L. POLK & CO.	ERIE
1984	ASHLEYS BOUTIQUE [JWLRY & CLOCK SLS]	2D FL	R.L. POLK & CO.	ERIE
1984	BUYERS GIFTS WARE [CHINE GLASS]	2D FL	R.L. POLK & CO.	ERIE
1984	STIX N KONES [RESTR]	2D FL	R.L. POLK & CO.	ERIE
1984	ARNE ANTICS [LADIES CASUAL CLO]	202 A	R.L. POLK & CO.	ERIE
1984	DE MARCI DAVID J [DENTIST]	310	R.L. POLK & CO.	ERIE
1984	JAGEMAN JEFF A [DENTST]	310	R.L. POLK & CO.	ERIE
<u>401 STATE ST</u>				
2019	EMBER FORGE [COFFEE SHOPS]		R.L. POLK & CO.	ERIE

City Directory Target Property Address

State St, Erie, PA 16501

2016	NORTHWEST BANK [MORTGAGE AMORTIZATION SCHEDULE]	R.L. POLK & CO.	ERIE
2011	NORTHWEST SAVINGS BANK [BANKS]	R.L. POLK & CO.	ERIE
2005	NORTHWEST SAVINGS BANK [BANKS]	R.L. POLK & CO.	ERIE
2000	NORTHWEST SAVINGS BANK [SAVINGS ASSNS]	R.L. POLK & CO.	ERIE
1995	HISTORIC SQUARE NORTHWEST SAVINGS BANK	R.L. POLK & CO.	ERIE
1990	HISTORIC SQAURE	R.L. POLK & CO.	ERIE
1990	MELLON BANK	R.L. POLK & CO.	ERIE
1984	HISTORIC SQUARE	R.L. POLK & CO.	ERIE

85 1/2 STATE ST

1970	ERIE BAIT CO	ATKINSON DIRECTORY CO	ERIE
1965	ERIE BAIT CO	ATKINSON DIRECTORY CO	ERIE
1960	ERIE BAIT CO	ATKINSON DIRECTORY CO	ERIE

93-95 STATE ST

1949-50	LUTZ LESTER [LIVE HALT]	ATKINSON DIRECTORY CO	ERIE
1949-50	X [2D INTS]	ATKINSON DIRECTORY CO	ERIE

1002 STATE ST

1990	ERIE COPY PRODUCTS	R.L. POLK & CO.	ERIE
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200-18 STATE ST

1965	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1960	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1955	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1949-50	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1945	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1940	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

State St, Erie, PA 16501

202-14 STATE ST

1915-16	BUFFALO & LAKE ERIE TRAC CO	ATKINSON DIRECTORY CO	ERIE
1915-16	X [E S] B & L E T CO FREIGHT STATION	ATKINSON DIRECTORY CO	ERIE
1909-10	BUFFALO & LAKE ERIE TRACTION CO [BARNs]	ATKINSON DIRECTORY CO	ERIE
1906-07	ERIE ELECTRCI MOTOR CO [O&BARNs]	ATKINSON DIRECTORY CO	ERIE

202-18 STATE ST

1935	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1930	ERIE RAILWAYS CO [CAR BARNs]	ATKINSON DIRECTORY CO	ERIE

202-214 STATE ST

1901-02	ERIE ELECTRIC MOTOR CO [STATION AND OFFICES]	ATKINSON DIRECTORY CO	ERIE
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202-218 STATE ST

1925-26	ERIE RAILWAYS CO [CAR BARNs]	ATKINSON DIRECTORY CO	ERIE
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202-222 STATE ST

1920	B & L E TRAC CO CAR BARNs]	ATKINSON DIRECTORY CO	ERIE
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203-11 STATE ST

1945	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1940	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1935	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1930	ERIE COACH CO [GARAGE]	ATKINSON DIRECTORY CO	ERIE

203-223 STATE ST

1925-26	B & L E TRACTION CO [FREIGHT OFFICE]	ATKINSON DIRECTORY CO	ERIE
1920	B & L E TRAC CO FRGT STA	ATKINSON DIRECTORY CO	ERIE

204-12 STATE ST

1949-50	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
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City Directory Target Property Address

State St, Erie, PA 16501

205-09 STATE ST

1906-07	ERIE ELECTRIC MOTOR CO CAR [BARN]	ATKINSON DIRECTORY CO	ERIE
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213-15 STATE ST

1965	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1960	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1955	ERIE COACH CO (GARAGE)	ATKINSON DIRECTORY CO	ERIE
1949-50	ERIE COACH CO (STORAGE)	ATKINSON DIRECTORY CO	ERIE
1945	ERIE COACH CO (GARAGE YDS)	ATKINSON DIRECTORY CO	ERIE

213-25 STATE ST

1940	ERIE COACH CO [STORAGE YDS]	ATKINSON DIRECTORY CO	ERIE
1935	ERIE COACH CO [STORAGE YDS]	ATKINSON DIRECTORY CO	ERIE

222-28 STATE ST

1945	LAFAYETTE TAVERN	ATKINSON DIRECTORY CO	ERIE
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222-30 STATE ST

1906-07	MARIEN HOUSE	ATKINSON DIRECTORY CO	ERIE
1906-07	GEORGE SIMMONS	ATKINSON DIRECTORY CO	ERIE

224-230 STATE ST

1915-16	LAFAYETTE HOTEL	ATKINSON DIRECTORY CO	ERIE
1915-16	SPEED JOHN T	ATKINSON DIRECTORY CO	ERIE

224-26 STATE ST

1935	LAFAYETTE TAVERN	ATKINSON DIRECTORY CO	ERIE
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224-28 STATE ST

1940	CUNHA FRANK [RESTR]	ATKINSON DIRECTORY CO	ERIE
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City Directory Target Property Address

State St, Erie, PA 16501

224-30 STATE ST

1965	PILOT HOUSE [RESTR]	ATKINSON DIRECTORY CO	ERIE
1960	ANCHOR INN	ATKINSON DIRECTORY CO	ERIE
1949-50	LAFAYETTE TAVERN	ATKINSON DIRECTORY CO	ERIE

226-230 STATE ST

1925-26	LAFAYETTE HOTEL	ATKINSON DIRECTORY CO	ERIE
1925-26	SCOFIELD CHARLES	ATKINSON DIRECTORY CO	ERIE
1920	MARSHALL TONEY [RESTR]	ATKINSON DIRECTORY CO	ERIE
1920	LAFAYETTE HOTEL	ATKINSON DIRECTORY CO	ERIE
1920	SPEED JOHN T	ATKINSON DIRECTORY CO	ERIE

226-30 STATE ST

1909-10	MARINE HOTEL	ATKINSON DIRECTORY CO	ERIE
1909-10	SPEED JOHN T [PROPR]	ATKINSON DIRECTORY CO	ERIE

227-23 STATE ST

1930	ERIE RYS CO	ATKINSON DIRECTORY CO	ERIE
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227-231 STATE ST

1925-26	ERIE RAILWAYS CO	ATKINSON DIRECTORY CO	ERIE
1925-26	X [THIRD INTS]	ATKINSON DIRECTORY CO	ERIE
1920	SANDS FLATS	ATKINSON DIRECTORY CO	ERIE

227-31 STATE ST

1930	ERIE RYS CO (STORAGE YDS)	ATKINSON DIRECTORY CO	ERIE
1915-16	SANDS FLATS	ATKINSON DIRECTORY CO	ERIE
1915-16	STRAUB CHARLES J [BARBER]	ATKINSON DIRECTORY CO	ERIE
1909-10	SANDS BUILDING	ATKINSON DIRECTORY CO	ERIE

City Directory Target Property Address

State St, Erie, PA 16501

1909-10	STRAUB CHARLES J [BARBER]	ATKINSON DIRECTORY CO	ERIE
1909-10	REILLY DANIEL [PAINTER RMS]	ATKINSON DIRECTORY CO	ERIE
1909-10	STEIN PAUL [CLK RMS]	ATKINSON DIRECTORY CO	ERIE
1906-07	SANDS BUILDING	ATKINSON DIRECTORY CO	ERIE
1906-07	ISAAC S BALL [BARBER S&H]	ATKINSON DIRECTORY CO	ERIE
1906-07	LENA M CANEEN [WID]	ATKINSON DIRECTORY CO	ERIE
1906-07	JOHN RAYMOND [FRMN]	ATKINSON DIRECTORY CO	ERIE

227-33 STATE ST

1955	ERIE COACH CO	ATKINSON DIRECTORY CO	ERIE
1949-50	ERIE COACH CO	ATKINSON DIRECTORY CO	ERIE
1945	ERIE COACH CO	ATKINSON DIRECTORY CO	ERIE
1940	ERIE COACH CO	ATKINSON DIRECTORY CO	ERIE
1935	ERIE COACH CO	ATKINSON DIRECTORY CO	ERIE
1935	ERIE RYS CO	ATKINSON DIRECTORY CO	ERIE

Comment: No coverage available for Erie prior to 1901.

City Directory Target Property Address

Target Property:

*W Bayfront Pkwy,
Erie, PA 16501*

Prepared For:
MS Consultants-Moon

Order #: 134806

Project #: 60-06808-03-05-02-0802

Date: 10/25/2019

City Directory Target Property Address

W Bayfront Pkwy, Erie, PA 16501

1 W BAYFRONT PKWY

2019	STREET BEGINS	R.L. POLK & CO.	ERIE
2014	STREET BEGINS	R.L. POLK & CO.	ERIE
2011	STREET BEGINS	R.L. POLK & CO.	ERIE
2005	STREET BEGINS	R.L. POLK & CO.	ERIE
2005	X [E BAYFRONT PKWY CONTINUES]	R.L. POLK & CO.	ERIE
2005	Y [STATE ST INTS]	R.L. POLK & CO.	ERIE
2000	STREET BEGINS	R.L. POLK & CO.	ERIE
1995	STREET NOT LISTED	R.L. POLK & CO.	ERIE
1990	STREET NOT LISTED	R.L. POLK & CO.	ERIE
1984	STREET NOT LISTED	R.L. POLK & CO.	ERIE
1979-80	STREET NOT LISTED	ATKINSON DIRECTORY CO	ERIE
1975	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE
1970	STREET BEGINS	ATKINSON DIRECTORY CO	ERIE

17 W BAYFRONT PKWY

1975	ERIE MARINE SUPPLY CO	ATKINSON DIRECTORY CO	ERIE
1970	ERIE MARINE SUPPLY CO	ATKINSON DIRECTORY CO	ERIE

25 W BAYFRONT PKWY

1975	ENGLISH AND WHIPPLE SAIL YARD LTD (ADDN SP)	ATKINSON DIRECTORY CO	ERIE
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27 W BAYFRONT PKWY

1975	SAIL YARD LTD THE [SLS & SERV MARINE SUPS]	ATKINSON DIRECTORY CO	ERIE
1970	HARBOR MARINE CO INC [SLS & SERV MARINE SUPS]	ATKINSON DIRECTORY CO	ERIE

37 W BAYFRONT PKWY

1975	ERIE MARINE SUPPLY CO (STORAGE)	ATKINSON DIRECTORY CO	ERIE
1970	ERIE MARINE SUPPLY CO (STORAGE)	ATKINSON DIRECTORY CO	ERIE

47 W BAYFRONT PKWY

1975	VACANT	ATKINSON DIRECTORY CO	ERIE
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City Directory Target Property Address

W Bayfront Pkwy, Erie, PA 16501

1975	X [END OF LISTINGS]	ATKINSON DIRECTORY CO	ERIE
1970	VACANT	ATKINSON DIRECTORY CO	ERIE
1970	X [END OF LISTINGS]	ATKINSON DIRECTORY CO	ERIE

218 W BAYFRONT PKWY

2005	GAF CORP [SHINGLES & SHAKES-MFRS]	R.L. POLK & CO.	ERIE
2005	SARGENT THOMAS L	R.L. POLK & CO.	ERIE

340 W BAYFRONT PKWY

2019	DYLEWSKI JERRY	R.L. POLK & CO.	ERIE
2019	ERIE CITY SEWER [GOVERNMENT OFFICES]	R.L. POLK & CO.	ERIE
2019	ERIE CITY WATER AUTHORITY [UTILITIES]	R.L. POLK & CO.	ERIE
2019	ERIE WATER WORKS [WATER & SEWAGE COMPANIES]	R.L. POLK & CO.	ERIE
2014	ERIE WATER WORKS [WATER & SEWAGE COMPANIES]	R.L. POLK & CO.	ERIE
2014	PARKING AUTHORITY-METER REPAIR [GOVERNMENT OFFICES]	R.L. POLK & CO.	ERIE
2011	ERIE WATER AUTHORITY [CITY GOVT- REGULATION/ADM]	R.L. POLK & CO.	ERIE
2011	ERIE WATER WORKS [WATER & SEWAGE COMPANIES]	R.L. POLK & CO.	ERIE
2005	ERIE CITY WATER WORKS [WATER & SEWAGE COMPANIES]	R.L. POLK & CO.	ERIE
2005	ERIE WATER AUTHORITY [CITY GOVT- REGULATION/ADM]	R.L. POLK & CO.	ERIE
2005	PARKING AUTHORITY-METER REPAIR [GOVERNMENT OFFICES]	R.L. POLK & CO.	ERIE
2000	ERIE CITY WATER AUTHORITY ALL DPTS WWW ERWTR ORG	R.L. POLK & CO.	ERIE

402 W BAYFRONT PKWY

2019	PORT ERIE SPORTS [BOATS-RENTAL & CHARTER]	R.L. POLK & CO.	ERIE
2014	PORT ERIE SPORTS [BOATS-RENTAL & CHARTER]	R.L. POLK & CO.	ERIE
2011	PORT ERIE SPORTS [BOATS-RENTAL & CHARTER]	R.L. POLK & CO.	ERIE

644 W BAYFRONT PKWY

2005	FRANCZKOWSKI ANTHONY	R.L. POLK & CO.	ERIE
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City Directory Target Property Address

W Bayfront Pkwy, Erie, PA 16501

664 W BAYFRONT PKWY

2019	COMMODORE PERRY YACHT CLUB [CLUBS]		R.L. POLK & CO.	ERIE
2014	COMMODORE PERRY YACHT CLUB [CLUBS]		R.L. POLK & CO.	ERIE
2011	COMMODORE PERRY YACHT CLUB [CLUBS]		R.L. POLK & CO.	ERIE
2005	COMMODORE PERRY YACHT CLUB [CLUBS]		R.L. POLK & CO.	ERIE
2005	X [CHERRY ST INTS]		R.L. POLK & CO.	ERIE

726 W BAYFRONT PKWY

2019	SUNSETTER ADVENTURE [FISHING LAKES & PONDS]		R.L. POLK & CO.	ERIE
2019	SLOPPY DUCK SALOON [RESTAURANTS]	1	R.L. POLK & CO.	ERIE
2019	BAY HARBOR MARINA SVC [MARINAS]	2	R.L. POLK & CO.	ERIE
2019	JR'S ON THE BAY [RESTAURANTS]	2	R.L. POLK & CO.	ERIE
2014	DAVE LITZ JUNIORS ON THE BAY [RESTAURANTS]		R.L. POLK & CO.	ERIE
2014	SLOPPY DUCK SALOON [RESTAURANTS]	1	R.L. POLK & CO.	ERIE
2014	BAY HARBOR MARINA SVC [MARINAS]	2	R.L. POLK & CO.	ERIE
2011	BAY HARBOR MARINA SVC [MARINAS]		R.L. POLK & CO.	ERIE
2011	DAVE LITZ JUNIORS ON THE BAY [RESTAURANTS]		R.L. POLK & CO.	ERIE
2011	SLOPPY DUCK SALOON [RESTAURANTS]	1	R.L. POLK & CO.	ERIE
2005	BAY HARBOR MARINA SVC [MARINAS]		R.L. POLK & CO.	ERIE
2005	SLOPPY DUCK [RESTAURANTS]		R.L. POLK & CO.	ERIE

960 W BAYFRONT PKWY

2019	RCR YACHTS OF ERIE INC [BOAT DLRS SALES & SERV]		R.L. POLK & CO.	ERIE
2014	RCR YACHTS OF ERIE INC [BOAT DLRS SALES & SERV]		R.L. POLK & CO.	ERIE
2011	RCR YACHTS OF ERIE INC [BOAT DLRS SALES & SERV]		R.L. POLK & CO.	ERIE

1012 W BAYFRONT PKWY

2019	BORLAND MARTHA		R.L. POLK & CO.	ERIE
2019	MARTIN KYLE LYN [SPEECH PATHOLOGIST]		R.L. POLK & CO.	ERIE
2019	PETERSON RAYMOND E		R.L. POLK & CO.	ERIE
2014	CRISCIONE GLORIA		R.L. POLK & CO.	ERIE

City Directory Target Property Address

W Bayfront Pkwy, Erie, PA 16501

2014	SUNRISE AT PRESQUE ISLE BAY [RESIDENTIAL CARE HOMES]		R.L. POLK & CO.	ERIE
2014	TRONETTI MARGARET E		R.L. POLK & CO.	ERIE
2014	WASSON MARY M		R.L. POLK & CO.	ERIE
2014	X [END OF LISTINGS]		R.L. POLK & CO.	ERIE
2011	ANDERSON CALR E		R.L. POLK & CO.	ERIE
2011	ANDERSON HELEN B		R.L. POLK & CO.	ERIE
2011	BUREK LORI		R.L. POLK & CO.	ERIE
2011	LAWRENCE ADA L		R.L. POLK & CO.	ERIE
2011	RAPP DELORES M		R.L. POLK & CO.	ERIE
2011	SUNRISE ASSISTED LIVING [RESIDENTIAL CARE HOMES]		R.L. POLK & CO.	ERIE
2005	BETTS DONALD Y		R.L. POLK & CO.	ERIE
2005	GRAFF PAUL H		R.L. POLK & CO.	ERIE
2005	SUNRISE AT PRESQUE ISLE BAY [RESIDENTIAL CARE HOMES]		R.L. POLK & CO.	ERIE
2000	KARRINGTON HEALTH [PERSONAL CARE HOME]		R.L. POLK & CO.	ERIE
2000	AGRESTI RITA G	322	R.L. POLK & CO.	ERIE

1025 W BAYFRONT PKWY

2019	GETGO CAF? MARKET [CONVENIENCE STORES]		R.L. POLK & CO.	ERIE
2019	X [END OF LISTINGS]		R.L. POLK & CO.	ERIE

1030 W BAYFRONT PKWY

2011	VICTORIAN PRINCESS CRUISE LINE [BOAT EQUIP/SUPL]		R.L. POLK & CO.	ERIE
2011	X [END OF LISTINGS]		R.L. POLK & CO.	ERIE
2005	BOAT STORE [BOAT DLRS SALES & SERV]		R.L. POLK & CO.	ERIE
2005	VICTORIAN PRINCESS CRUISE LINE [BOAT EQUIP/SUPL]		R.L. POLK & CO.	ERIE
2000	BAYFRONT DISTRICT [TOURIST INFO UR]		R.L. POLK & CO.	ERIE
2000	ERIE PASSPORT PROGRAM [TOURIST ATTRACTIONS]		R.L. POLK & CO.	ERIE
2000	LAKE ERIE WELCOME CENTER [TOURIST INFO BUR]		R.L. POLK & CO.	ERIE
2000	X [END OF LISTINGS]		R.L. POLK & CO.	ERIE

1040 W BAYFRONT PKWY

2005	NAGLE YVONNE		R.L. POLK & CO.	ERIE
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City Directory Target Property Address

W Bayfront Pkwy, Erie, PA 16501

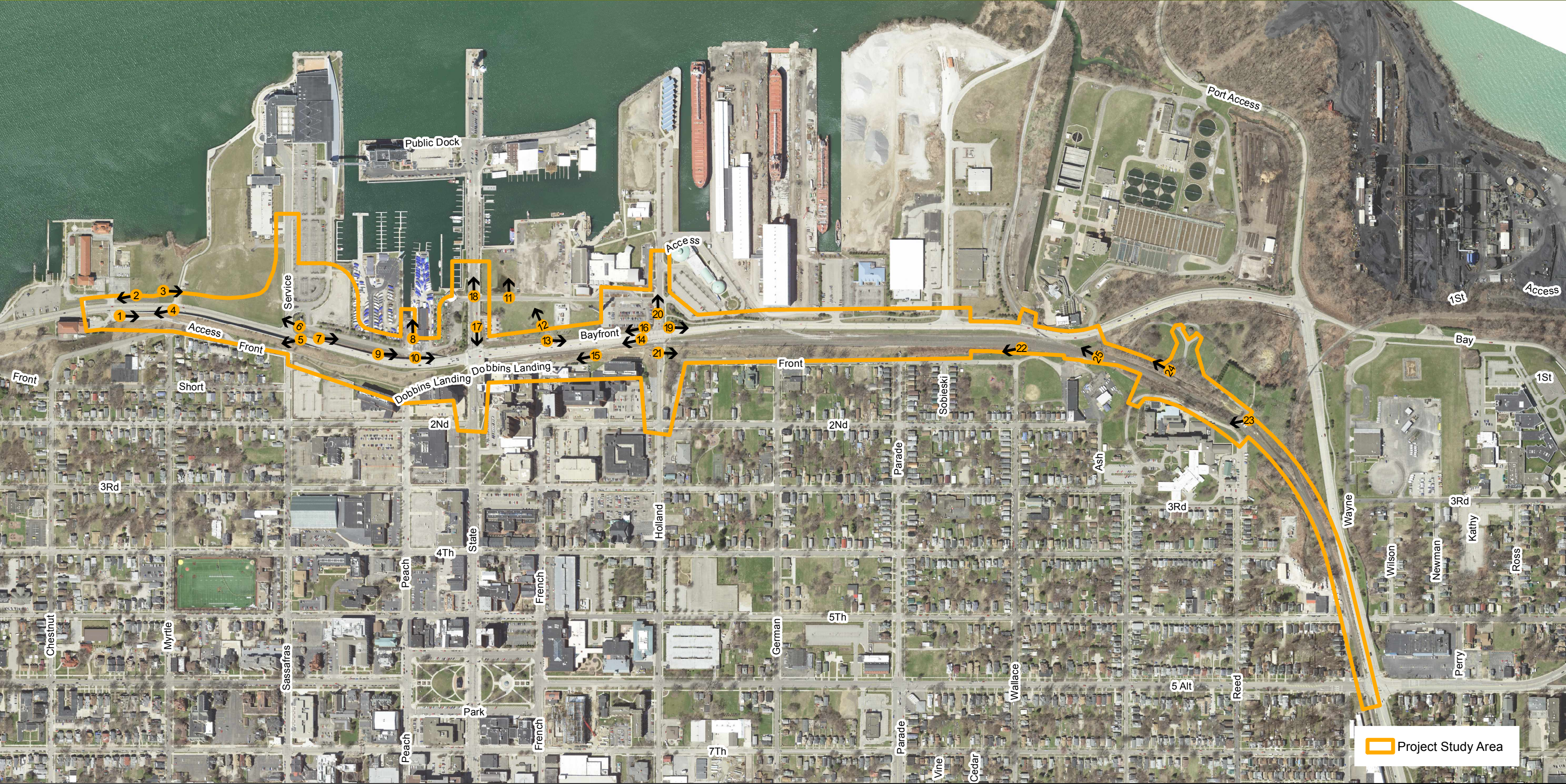
2005	STOIK JAMES P	R.L. POLK & CO.	ERIE
2005	X [NIAGARA POINT DR ENDS]	R.L. POLK & CO.	ERIE
2005	Y [END OF LISTINGS]	R.L. POLK & CO.	ERIE

Comment: W Bayfront Pkwy also listed as W Bay Front St. W Bayfront Pkwy/St is a continuation of E Bayfront Pkwy/St.



APPENDIX 7

Walkover Photographs



Project Study Area

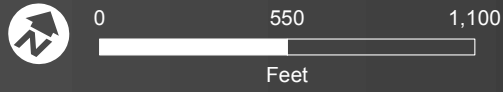


Figure 07
Photo Location Map



Photo 1: of Bayfront Parkway looking east.



Photo 2: Looking west towards Chestnut Filtration Plant.



Photo 3: Looking east towards former GAF property.



Photo 4: of Bayfront Parkway looking west, towards Chestnut Filtration Plant.



Photo 5: Looking east at Bayfront Parkway and Former GAF property.



Photo 6: Looking towards the former GAF property and Bayfront Convention Center former Erie Sand & Gravel Property.



Photo 7: Looking east on Front Street towards abandoned CSX railroad.



Photo 8: Looking north at Bayshore Marine Services.



Photo 9: Looking east towards 3 pole transformer.



Photo 10: Looking east on Front Street towards abandoned CSX railroad.



Photo 11: Looking from Front Street at former GPU Front Street Station, now Hampton inn.



Photo 12: Looking at former GPU Front Street Station, now Hampton inn and Penelec substation.



Photo 13: Looking east, towards smokestack from former GPU Front Street Sta.



Photo 14: Looking west down Bayfront Parkway, towards UPMC Hamot.



Photo 15: Looking west towards UPMC Hamot.



Photo 16: Looking west down Bayfront Parkway at state street intersection.



Photo 17: Looking south towards State Street/ Bayfront Parkway intersection.



Photo 18: Looking north towards State Street towards Lake Erie.



Photo 19 Looking west towards Donjon Shipbuilding & Repair LLC/Erie.



Photo 20: Looking north at Holland Street/ Bayfront Parkway intersection.



Photo 21: Looking east at CSX Railroad tracks.



Photo 22: Looking west at CSX Railroad tracks.



Photo 23: looking west at Pa Soldiers & Sailors Home.



Photo 24: Looking north west at CSX Railroad tracks.



Photo 25: Looking north west at CSX Railroad tracks.