



Newark Liberty International Airport AirTrain Replacement Program

FINAL EA APPENDICES (VOLUME 2)

May 2021

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Historic Architectural Sites Survey and Effects
Assessment for the Newark AirTrain
Replacement Project
City of Newark, Essex County
And
City of Elizabeth, Union County,
New Jersey
for Review under Section 106 of the
National Historic Preservation Act

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EXECUTIVE SUMMARY

The following report by ARCH², Inc. presents the results of a historic architectural sites survey conducted in the City of Newark, Essex County, and City of Elizabeth, Union County, New Jersey. This report was conducted in accordance with Section 106 of the National Historic Preservation Act and the federal Advisory Council on Historic Preservation's implementing regulations, 36 CFR Part 800: Protection of Historic Properties, effective August 5, 2004. Section 106 requires that federal agencies take into consideration the effects of their undertakings on resources listed in, or eligible for inclusion in, the National Register of Historic Places (NRHP). The Section 106 review for this project was necessitated by The Port Authority of New York & New Jersey (PANYNJ)'s potential use of federal funds to assist with the costs of the proposed Newark AirTrain Replacement project.

The Proposed Action would include replacing the existing AirTrain at Newark Liberty International Airport (EWR) with a new automated people mover (APM) system. This replacement system will enhance capacity, provide service between on-airport facilities, and maintain the connection to the NJ TRANSIT and Amtrak lines via an improved Rail Link Station. The new AirTrain EWR will serve Terminals B and C and the new Terminal 1 as well as parking areas (with hotel shuttle transportation), the Consolidated Rental Car Facility and Parking Garage (ConRAC), and the Rail Link Station. Terminal 1 and ConRAC are not federally funded and are therefore not part of the federal undertaking under Section 106.

To take into consideration physical and visual effects of the proposed federal undertaking, the Area of Potential Effects (APE) starts at U.S. Route 22 at the northern end, includes the three main airport terminals (A, B, and C) and the airport's field of tanks, expands to the west to encompass the entire Anheuser-Busch property, and then proceeds north along the western edge of the Northeast Corridor (NEC) to the starting point at U.S. Route 22.

The current survey determined that there were three previously identified historic properties within the current project's APE: Amtrak's Northeast Corridor (NEC), the Haynes Avenue Bridge over the NEC, and the U.S. Route 1/9 Historic District, and two historic properties on airport property but outside of the APE: Newark Metropolitan Airport Administration Building and Medical Building. As part of the current survey, four additional properties were evaluated: Newark Liberty International Airport's Terminals A, B, and C, which were approximately 45 years old at the time of this study; Anheuser-Busch, Inc.; Kingsland Drum and Barrel, Inc.; and New Jersey Galvanizing and Tinning Works, Inc. None of these resources was evaluated as eligible for inclusion in the NRHP.

In accordance with the Advisory Council's Criteria for Adverse Effect, 36 CFR Part 800, the project was evaluated as not having an adverse effect on the historically significant resources in the APE: the NEC, the Haynes Avenue Bridge over the NEC, Newark Metropolitan Airport Administration Building and Medical Building, and U.S. Route 1/9 Historic District. The evaluation took into consideration several key factors, including the nature of both the historic resources and the project area, and the distance between the proposed project and the historic resources. All of the identified historic resources are

transportation resources and are located within a heavily developed area. The National Register-listed Newark Metropolitan Airport Administration Building and Medical Building are located within the Newark Liberty International Airport, but they are far enough removed from the project site that they will not be directly or visually affected. The other three historic resources, Haynes Avenue Bridge over the Northeast Corridor, Amtrak's Northeast Corridor, and the US Route 1/9 Historic District, will be affected; however, due to the nature of these resources and the fact that the project involves replacement of an existing AirTrain system, the effect will not be adverse.

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INTRODUCTION AND PROJECT DESCRIPTION

The following report by ARCH², Inc. presents the results of a historic architectural sites survey conducted in the City of Newark, Essex County, and City of Elizabeth, Union County, New Jersey (see Figure 1). This report, prepared by Nancy Zerbe, Architectural Historian, was conducted in accordance with Section 106 of the National Historic Preservation Act and the federal Advisory Council on Historic Preservation's implementing regulations, 36 CFR Part 800: Protection of Historic Properties, as published in the Federal Register, December 12, 2000 (Volume 65, Number 239, Pages 77697-77739). Section 106 requires that federal agencies take into consideration the effects of their undertakings on resources listed in, or eligible for inclusion in, the National Register of Historic Places. The Section 106 review for this project was necessitated by The Port Authority of New York & New Jersey (PANYNJ)'s potential use of federal funds to assist with the costs of the proposed Newark AirTrain Replacement project.

In addition, the analysis of potential effects on historic resources has been developed in accordance with FAA Order 5050.4B, NEPA Implementing Instructions for Airport Actions; FAA Order 1050.1F, Environmental Impacts: Policies and Procedures; and FAA Environmental Desk Reference for Airport Actions. Compliance with these orders and guidance ensures that the project will meet the procedural and substantive requirements set forth by the Council of Environmental Quality (CEQ) in its regulations implementing NEPA (40 C.F.R. §§ 1500-1508).

The Proposed Action would include replacing the existing system with a new automated people mover (APM) system. This replacement system will enhance capacity, provide service between on-airport facilities, and maintain the connection to the NJ TRANSIT and Amtrak lines via an improved Rail Link Station. The new AirTrain EWR will serve Terminals B and C and the new Terminal 1 as well as parking areas (with hotel shuttle transportation), the Consolidated Rental Car Facility and Parking Garage (ConRAC), and the Rail Link Station. Terminal 1 and ConRAC are not federally funded and are therefore not part of the federal undertaking under Section 106.

The proposed replacement AirTrain system will be a 2.4-mile dual guideway system located primarily on PANYNJ property. The Port Authority anticipates acquiring (lease or title) land outside the CTA to accommodate permanent structures of the new AirTrain. These areas, located west of U.S. Route 1/9 adjacent to the existing AirTrain alignment near the existing Rail Link Station, are currently vacant or used for employee parking by United Airlines. In addition, the Port Authority will have to obtain temporary easements for construction of the Proposed Action.

The Proposed Action involves the construction of all facilities and infrastructure for the replacement AirTrain system – including elevated guideway infrastructure, rider stations, elevated pedestrian connectors, utilities, substations, a maintenance and control facility (MCF), vehicles, train control, and a power distribution system. All project components are shown on the project plans within Appendix A of this report.



Project Map - USGS Quad Sheet

Scale of original: 1:24,000

Map Reference: 1967/1981 Elizabeth, NJ USGS 7.5 Minute
Quadrangle Map

THE PORT AUTHORITY OF NY & NJ

**Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ**

Figure 1

The Proposed Action assumes that Terminal 1 and ConRAC, which are currently under construction, are completed. Additionally, the Port Authority is evaluating the replacement of Terminal B with a new terminal (Terminal Two). At present, initial planning for Terminal Two is in progress; consequently, there is no schedule, definitive plan or funding sources identified for the project. Although the PANYNJ is just beginning to evaluate the potential replacement of Terminal B, the Proposed Action assumes that any terminal replacements (such as a new Terminal Two to replace Terminal B) would be consistent with the overall north-south alignment of existing Terminal C and new Terminal One.

Elevated Guideway

The Proposed Action would be configured to serve the NEC Rail Link Station, each patron parking area, each terminal, and the new ConRAC facility.

The elevated guideway structure will include the structural components to support the train. The guideway structure will include foundations, substructure (piers, columns, bents, caps) and superstructure (beams/girders, deck slab, parapet walls, equipment supports, emergency and maintenance walkways, etc.). The varying guideway elevation will likely range from 5 to 75 feet above grade with track separations from 17 to 60 feet.

Starting at the north terminus, the Maintenance and Control Facility would be located on a lot that currently serves as United Airlines employee vehicle parking. Moving north to south, the first station, the NEC Rail Link Station, would be located to the north and west of the existing NEC Rail Link Station. This station would be located slightly above grade over grassy/barren soil. This alignment would parallel the existing alignment to the west and south.

The elevated guideway would parallel the existing AirTrain between Rail Link and P4 (approximately 5,800 feet). The guideway would be located in a north/south orientation for approximately 1,000 feet, between the area just east of the P4 Garage and the Airport exit roadway. New Station 3 would serve the P4 Garage, Terminal C, and Terminal B. This station would be located southeast of the P4 Garage, approximately 70 feet above a grassy area adjacent to Pitcairn Road.

Between the new Station 3 and the gas station, the guideway would be in a southwest/northeast orientation for approximately 700 feet and would cross over the Airport's access/exit roadways, and then would run south/north for approximately 1,300 feet. The guideway would cross over the path of the existing AirTrain, the location of existing P3 Station, curve in northeast orientation for approximately 500 feet, and proceed south along the new Terminal 1 frontage roads for approximately 2,400 feet. The southernmost terminus of the Proposed Action would be located on the south end of Terminal 1 and east of the Peripheral Ditch.

Stations

Rail Link Station

The Proposed Action would modify the existing Rail Link building. The platform for the existing AirTrain would no longer be needed, and it is anticipated that it would be converted to another use (e.g., office, storage, other). The existing sliding doors on the existing platform would be replaced with fixed panel doors suitable for the ultimate usage of this area. In addition, two new escalators, one elevator, and a staircase would be constructed on the north end of the existing Rail Link Station to facilitate the transfer of passengers to the bus area.

The Proposed Action would also include the construction of a new station building contiguous with the existing pedestrian bridge at the Rail Link Station. The new building would provide an enclosed, climate-controlled center platform for riders. The new Rail Link Station would be located northwest of the existing Rail Link Station partially between the existing guideway and the Amtrak rails. To the south of the platform will be an enclosed space that houses an APM equipment room and a substation. Above this enclosed area will be a mezzanine level which will house a mechanical room and an electrical room. Above that will be an open concourse that ties into the existing pedestrian bridge to Amtrak and NJ TRANSIT. The vertical circulation provided will be via two elevators and three escalators.

Station 1

Station 1 anchors the southern end of the alignment and will service the future Terminal 1, which is currently under construction. The new enclosed, climate-controlled building will be comprised of three levels (concourse, mezzanine and platform), and would accommodate passenger areas and support facilities (a substation, electrical and mechanical rooms). The station will be connected, at the Concourse level, to the future Terminal 1 and a parking garage through a future pedestrian bridge. The station is located to the west of Terminal 1 and would be between two future vehicular roadways that are to be constructed as part of the Terminal 1 Program. The building will house a single-ended center platform with two elevators and three escalators. The riders served at Station 1 are Terminal 1 passengers and rental car customers.

Station 2

Future Station 2 will provide service to Future Terminal 2. The substructure and superstructure will be constructed initially as part of the AirTrain Replacement to allow for the future load of the structure. The riders to be served by Station 2 are Terminal 2 passengers.

Station 3

Station 3 will be located in the approximate midpoint of the Replacement AirTrain. The building will stand to the east of P4 and southwest of Terminal C. This station will link to the following: Parking Garage P4 and Terminals C and B. Passengers will access these linkages via elevated pedestrian bridges. This increase in number of linkages will force the station to slightly widen. The center platform will be a single ended enclosed, climate-

controlled space with two elevators toward the center of the platform and four escalators flanking the north end. The area beneath the platform will house APM Equipment room, Mechanical room, and an electrical room. Restrooms will be provided at this station for AirTrain riders.

Pedestrian Connectors

The project proposes the construction of a 1,025-foot pedestrian bridge connecting Terminals B and C. Vertical circulation will include two escalators and one elevator for bridge access at Terminal B. The enclosed pedestrian bridge will be above grade and provide weather protection, climate control, and moving walkways for passenger convenience.

A pedestrian connection is also proposed to service Terminal B from AirTrain Station 3. The pedestrian bridge with moving walkways will be similar to the proposed pedestrian bridge between Terminals B and C. Vertical circulation would be anticipated to include three escalators and two elevators for platform and terminal access.

Maintenance and Control Facility (MCF)

The MCF houses the operation and maintenance-related functional space required for the AirTrain EWR APM system. Space is required for inspection, maintenance, and testing of APM vehicles and other system equipment, as well as for tool parts and storage, administrative functions, and personnel support. The following key functional areas will be required within the maintenance facility:

- Light maintenance tracks with car interior and undercar access
- Heavy maintenance tracks with enough vertical clearance to raise the car body
- Machine/mechanical/pneumatic shop
- Electrical/electronics shop
- Tool storage
- Spare parts storage (including flammable material storage)
- Receiving and loading area
- Administrative offices, conference room, and other spaces
- Personnel support spaces (restrooms, lockers, showers, break room, and training room)

It is anticipated that the MCF will house the Central Control Facility for monitoring and control of the system operation. Additionally, the facility will include train storage positions, a test track for performing departure and maintenance tests, and an APM car wash. A traction power substation used to power the maintenance building, yard, and spur tracks will be located either in the yard or within the MCF building. The MCF will be located close to existing grade and northeast of the existing Rail Link Station in the current United Airlines employee parking lot. It is anticipated that the MCF will remove between 900 existing parking spots permanently. The construction of this facility will also require property acquisition of approximately 6 acres.

The existing MCF was designed and constructed to the specific requirements of the AirTrain EWR monorail technology. The monorail uses a straddle beam type guideway that continues into the MCF as train maintenance lanes. The trains are narrower and shorter than any currently available technologies that meet the purpose and need of the project. There are no physical attributes of the maintenance lanes or specialized maintenance pits or elevated platforms that could be adopted intact or even moderately modified to be utilized for the current generation and configuration of APM cars.

Demolition of Existing AirTrain

Once the new system is completed, the existing AirTrain system will be decommissioned and demolished. This will include removal of all vehicles; demolition of the existing MCF, P2 and P3 Stations; partial demolition of the P4 and Rail Link Stations; and demolition of the existing guideway outside the CTA. Stations located within Terminals A, B, and C will remain in place. The elevators and escalators within those stations will be taken out of service. The guideway located within the CTA from the west face of Terminal A to the west face of Terminal C will remain in place in order to minimize/prevent disruption of airside and landside operations.

SURVEY METHODOLOGY

The principal goal of the historic structures survey was to identify all resources within the Area of Potential Effects (APE) that are already listed or have the potential to be listed in the NRHP.

ARCH², Inc. initiated this project by reviewing the project plans and conducting a preliminary field investigation to identify the appropriate study area or APE. Following the preliminary investigation, background research was conducted at the New Jersey Historic Preservation Office (NJ HPO) to determine if there are previously identified historic resources in the project area, either through the countywide survey, municipal historic sites designation, New Jersey or National Registers of Historic Places listings, or previous cultural resources surveys on file at the NJ HPO.

Once the APE was delineated, ARCH², Inc. proceeded with two follow-up components:

- Fieldwork was conducted to prepare intensive-level individual historic sites survey forms for all architectural resources 45 years or older. Although the criteria for inclusion in the NRHP requires a resource to be 50 years or older, ARCH², Inc. expanded the age requirement to 45 years due to the long-term nature of the proposed project.
- Historic research was conducted for general background history on the project area and the specific resources surveyed at the intensive level. Due to the nature of the potential historic properties within the APE, the historic research focused on the area's twentieth-century history and on two relevant historic contexts: transportation and industry.

With regard to the identification of historic properties, the federal Advisory Council on Historic Preservation provides guidance in determining an appropriate level of effort. The Advisory Council has developed regulations (36 CFR Part 800) to implement Section 106 of the National Historic Preservation Act. According to these regulations, the level of effort "...shall take into account past planning, research and studies, the magnitude and nature of the undertaking and the degree of Federal involvement, the nature and extent of potential effects on historic properties, and the likely nature and location of historic properties within the area of potential effects" (36 CFR Part 800.4.b.1).

Potentially significant historic properties include districts, structures, objects, or sites which are at least 50 years old and which meet at least one NRHP criterion. Criteria used in the evaluation process are specified in the Code of Federal Regulations, Title 36, Part 60, NRHP (36 CFR 60.4). To be eligible for inclusion in the NRHP, a historic property(s) must possess:

The quality of significance in American History, architecture, archeology, engineering, and culture [that] is present in districts, sites, buildings,

structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:

- (a) that are associated with events that have made a significant contribution to the broad patterns of our history, or
- (b) that are associated with the lives of persons significant in our past, or
- (c) that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components lack individual distinction, or
- (d) that have yielded, or may be likely to yield, information important in prehistory or history (36 CFR 60.4).

There are several criteria considerations. Ordinarily, cemeteries, birthplaces, or graves of historical figures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings, properties primarily commemorative in nature, and properties that have achieved significance within the past 50 years shall not be considered eligible for the NRHP. However, such properties will qualify if they are integral parts of districts that do meet the criteria or if they fall within the following categories:

- (a) a religious property deriving primary significance from architectural or artistic distinction or historical importance, or
- (b) a building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with a historic person or event, or
- (c) a birthplace or grave of a historical figure of outstanding importance if there is no other appropriate site or building directly associated with his/her productive life, or
- (d) a cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events, or
- (e) a reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived, or

- (f) a property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own historic significance, or
- (g) a property achieving significance within the past 50 years if it is of exceptional importance (36 CFR 60.4).

When the intensive level survey was completed and all NRHP-listed or eligible historic properties had been identified, ARCH², Inc. evaluated the proposed project's effects on the identified historic properties and assessed whether or not any effects would be adverse. Finally, to comply with the requirements in the Section 106 review process for public participation, ARCH², Inc. developed a list of consulting parties (see Appendix B). The PANYNJ will invite these individuals and organizations to the project's public outreach meeting and will send them a copy of this report. Any comments that the PANYNJ receives will be forwarded to the NJ HPO.

Personnel

The fieldwork was conducted by Nancy L. Zerbe. Ms. Zerbe, Project Manager, meets the National Park Service's professional qualifications standards for architectural historians.

AREA OF POTENTIAL EFFECTS (APE) DELINEATION

Starting at the northern end of the project, the APE (see Figure 2) extends to U.S. Route 22) to include the northernmost component of the project, i.e., the proposed Maintenance and Control Facility (MCF) that is to be located in the northeast portion of the existing United Airlines' employee parking lot (see Photo Plate 1). The APE will encompass the new Rail Link Station, which will be located immediately north of the existing station (see Photo Plate 2). In this northern area, the APE boundaries have been delineated to take into consideration any physical and visual effects with the NEC serving as the western edge, U.S. Route 22 serving as the northern edge, and U.S. Route 1/9 serving as the eastern edge.

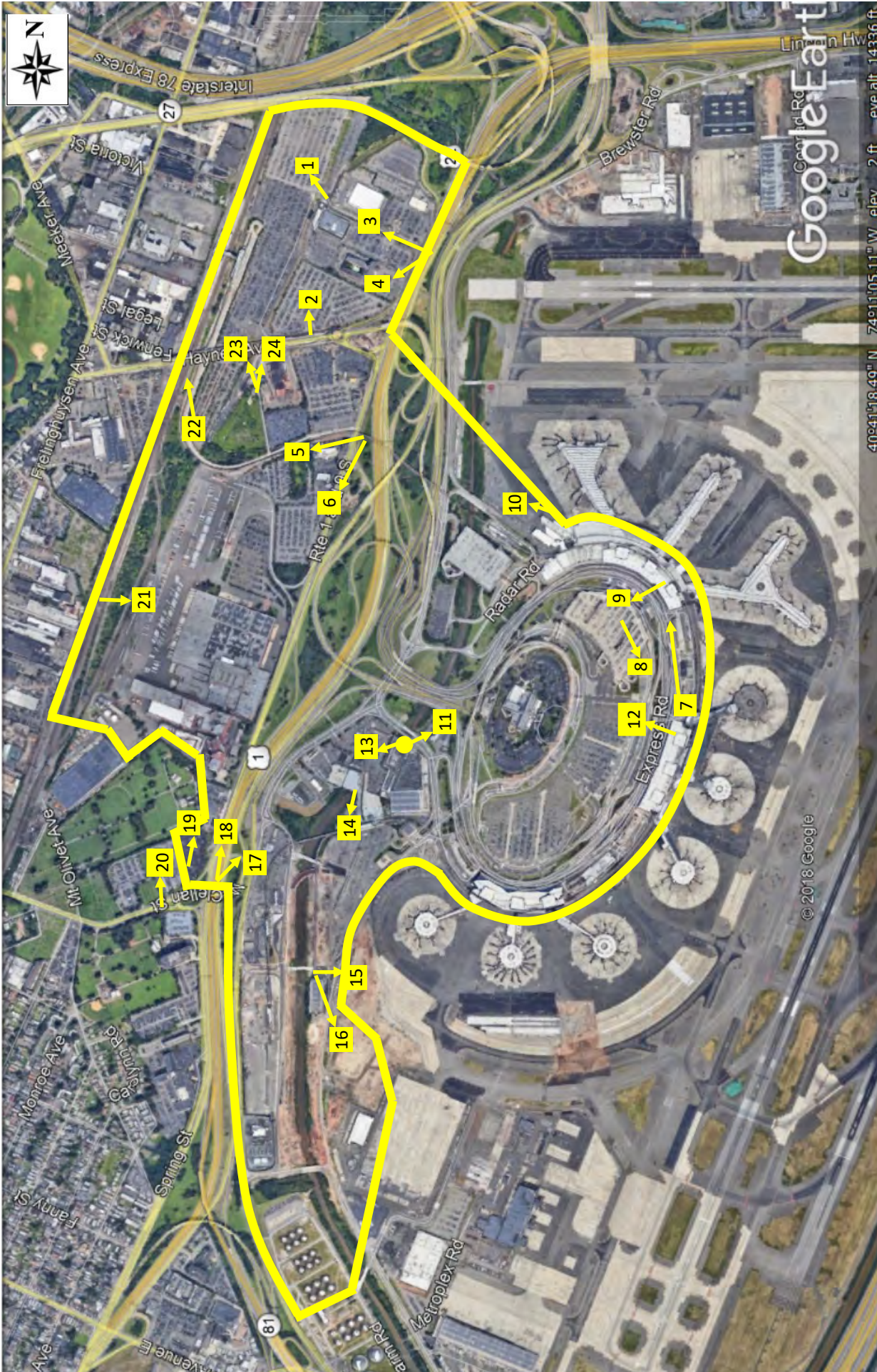
From the intersection of U.S. Route 22 and U.S. Route 1/9, the APE passes an area of parking lots (see Photo Plate 3) and modern commercial facilities (see Photo Plate 4), and extends south along U.S. Route 1/9 to the intersection with Haynes Avenue, where there will be a visual effect caused by the new AirTrain alignment to be located to the south of its current track. The area of the APE along U.S. Route 1/9 includes numerous modern commercial facilities (see Photo Plates 5 and 6). From U.S. Route 1/9, the APE proceeds southeast to include Newark Airport Terminals A, B, and C (see Photo Plates 7 and 8) due to the fact that the AirTrain will physically affect Terminals C and B and visually affect Terminal A.

The area of the APE in front of the terminals consists of numerous modern support facilities, including large parking garages (see Photo Plates 9 and 10), a gas station (see Photo Plate 11), hotel (see Photo Plate 12), and car rental agencies (see Photo Plates 13 and 14).

After passing Terminal A, the APE proceeds south and runs parallel to the existing monorail line with a row of modern airport maintenance buildings serving as the eastern boundary of the APE (see Photo Plates 15 and 16). The APE includes the field of tanks. In this area, there is very limited viewshed outside of the airport grounds; therefore, U.S. Route 1/9 serves as the western APE boundary (see Photo Plates 17 and 18).

Proceeding north, the APE expands to include the large Anheuser-Busch property. A large parking lot and airport shuttle service at the northwest intersection of U.S. Route 1/9 and McClellan Street (see Photo Plates 19 and 20) will block any potential views from sites further south or west.

The APE includes the entire Anheuser-Busch property, which runs from U.S. Route 1/9 to the NEC (see Photo Plate 21). From Anheuser-Busch, the APE proceeds north along the NEC, passes under the Haynes Avenue Viaduct (see Photo Plate 22), passing a few industrial sites, such as the former Kingsland Drum and Barrel building (see Photo Plate 23) and the current New Jersey Galvanizing and Tinning Works, Inc. site (see Photo Plate 24). The APE proceeds north past the existing NEC connection and terminates at U.S. Route 22.



<p>THE PORT AUTHORITY OF NY & NJ</p>	<p>APE and Photo Key Map</p> <p>Map Reference: Google Earth</p>	<p>Replacement of AirTrain at Newark Liberty International Airport Project Newark, NJ</p> <p>Figure 2</p>
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Plate 1: View looking northwest towards the location of the new MCF and the northern APE boundary at U.S. Route 22. Photographer: Nancy L. Zerbe, December 15, 2019.



Plate 2: View looking northwest towards the location of the new Rail Link Station. Photographer: Nancy L. Zerbe, December 15, 2019.



Plate 3: View looking northwest towards the project site from the eastern end of International Way near U.S. Route 1/9. Photographer: Nancy L. Zerbe, January 27, 2018.



Plate 4: View looking southwest at the Wyndham Garden Hotel on International Way near the northern end of the APE. Photographer: Nancy L. Zerbe, January 27, 2018.



Plate 5: View looking southwest at the Holiday Inn Hotel along U.S. Route 1/9 from the path of the existing AirTrain. Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 6: View looking southwest at modern commercial facilities along U.S. Route 1/9 from the path of the existing AirTrain. Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 7: View looking north at Terminal C. Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 8: View looking southeast at Terminal B. Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 9: View looking west at the modern Terminal C Garage. Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 10: View looking northwest at the modern P4 Garage (to the left) and AirTrain Station (center). Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 11: View looking northeast at a modern 7-Eleven and Exxon gas station near the center of the APE. Photographer: Nancy L. Zerbe, January 11, 2018.

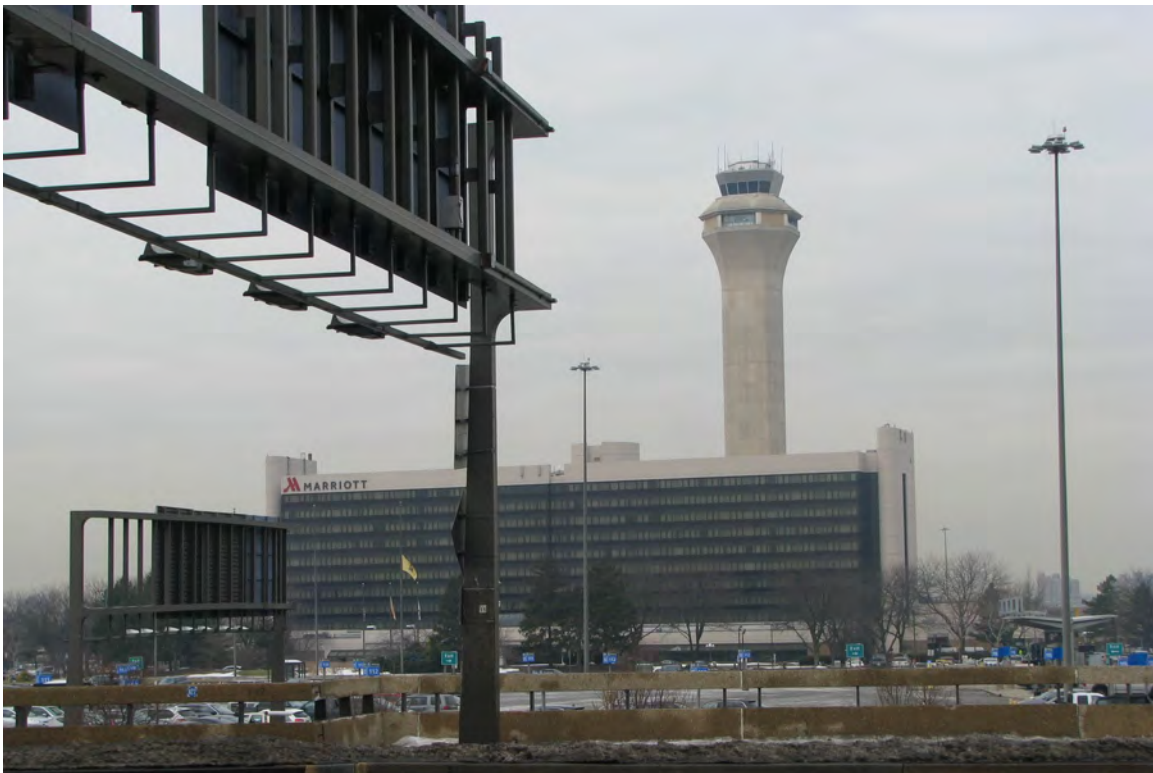


Plate 12: View looking northwest towards the modern Marriott Hotel across from Terminal B. Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 13: View looking southwest at car rental buildings located in the center of the APE.
Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 14: View looking south at a car rental building in the foreground and the P3 AirTrain Station in the background. Photographer: Nancy L. Zerbe, January 11, 2018.



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Plate 17: View looking northeast at U.S. Route 1/9, which at the southern portion of the project area serves as the western boundary of the APE. Photographer: Nancy L. Zerbe, January 27, 2018.



Plate 18: View looking north at U.S. Route 1/9, which at the southern portion of the project area serves as the western boundary of the APE. Photographer: Nancy L. Zerbe, January 27, 2018.



Plate 19: View looking north from McClellan Street at a private parking lot in the foreground and Anheuser-Busch in the background. Photographer: Nancy L. Zerbe, January 27, 2018.



Plate 20: View looking north across McClellan Street at an off-site private parking lot in the foreground and Anheuser-Busch in the background. Photographer: Nancy L. Zerbe, January 27, 2018.



Plate 21: View looking east at the rear of the Anheuser-Busch facility from the Northeast Corridor. Photographer: Nancy L. Zerbe, January 24, 2018.



Plate 22: View looking northwest at the Haynes Avenue Viaduct from the path of the existing AirTrain. Photographer: Nancy L. Zerbe, January 11, 2018.



Plate 23: View looking northwest at the former Kingsland Drum and Barrel building.
 Photographer: Nancy L. Zerbe, January 27, 2018.



Plate 24: View looking northeast at the New Jersey Galvanizing and Tinning Works, Inc. site.
 Photographer: Nancy L. Zerbe, January 27, 2018.

HISTORICAL OVERVIEW

The development of the project area has strong ties to transportation systems. New Jersey's two major post roads gave access to the ferries at Paulus Hook (Jersey City) and Elizabeth, but bypassed Newark. In 1730, Newark had approximately 800 residents (Meadows 1985, 16). In 1765, a charter was received for a road east from Newark to Paulus Hook. The Old Ferry Road would begin to open the area to settlement (Fidelity Union Trust Company 1953, n.p.).

Ports, railroads, and the Morris Canal provided Newark's and Elizabeth's industries with raw materials and access to new markets. Sailing ships began service between Newark and New York in 1818. Other ships, from local and European companies, traveled the Passaic River (Ibid.). The Morris Canal was completed to Phillipsburg, New Jersey in 1831, and the first load of coal arrived in Newark in May 1832 (Cunningham 1988, 101). With it came a "dispersion of industry" that bisected the city, immediately increased population, and set off a surge of urbanization (Drummond 1979, 36-37). Pennsylvania's coal fields and Morris County's iron mines provided fuel and raw material to the factories of Newark.

The New Jersey Railroad and Transportation Company was chartered in 1832, and provided trains that ran from Newark to Jersey City and to New Brunswick, carrying 100,000 passengers a year by 1835. The Morris and Essex Railroad was chartered in 1835, and began operation from Newark to Morristown in 1838 (Meadows 1985, 22-23).

The New Jersey Railroad and Transportation Company and the Camden and Amboy Railroad, which had both begun operations in the 1830s, competed with each other throughout the mid-nineteenth century over control of territory in New Jersey. Finally, in 1867, the two lines merged to create the United New Jersey Railways and Canal Company. While these two lines were growing and merging, the Pennsylvania Railroad (PRR) was also expanding and looking to create a more direct route from Philadelphia to New York City. It began negotiations with United New Jersey Railways and Canal Company to lease the new line, and in 1871, the line became known as the New York Division of the Pennsylvania Railroad Company. A direct route between the two cities was achieved, creating the present-day line that runs between Philadelphia and New York through Trenton, New Brunswick, and Newark (Heritage Studies, Inc. 1981, 23-24).

As the railroads proved the more efficient competitor, the portion of the Morris Canal that ran through Newark was closed in 1922. In the 1930s, the Newark City subway was constructed in the canal bed and Raymond Boulevard was constructed over top of it. These actions continued the industrial and commercial development that had been associated with the canal route (Meadows 1985, 75-76).

History of the Project Area

Located at the border between Newark and Elizabeth, the project area remained sparsely developed throughout most of the nineteenth century. In 1868, the City of Newark purchased "15 and 44/100 acres more or less of land in the Township of Clinton, [Essex] County, New Jersey" from David Bond in order to replace earlier city cemeteries

(SWEK/BRW 1994, 30). By the late nineteenth century, the area became known as Waverly following the Pennsylvania Railroad using that name for its depot at Haynes Avenue (Michael Baker, Jr. 2001, 2-21). In 1895, the Pennsylvania Railroad built the Waverly Yard (Ibid., 2-24).

An important aspect of the development of the project area was the twentieth century reclaiming of wetlands:

In 1907, the New Jersey Legislature passed a law enabling the City of Newark to purchase and develop the wetlands east of the city. Seven years later, Newark began to develop the Newark Bay waterfront as a shipping terminal and industrial center. This included filling over 1000 acres of wetlands, creating a 7,000-foot channel, and bulkheading the Bayshore (Louis Berger & Associates, Inc. 1989, 3).

In the mid-1920s, the project area was still mostly undeveloped with a few scattered industries near Waverly Yard as well as the City Cemetery and Mt. Olivet Cemetery further south. The area east of State Highway 25 (currently U.S. Route 1/9) had been subdivided, but was undeveloped (see Figure 3). However, in the early twentieth century, the City of Newark passed legislation to require that rail lines in the city's business district be elevated in order to avoid accidents. One of the effects of this requirement was to push some industries that were reliant on having rail sidings to move away from the business district. As a result, the project area at the southern fringe of the city became more attractive for industry (Michael Baker, Jr. 2001, 2-27).

On August 3, 1927, Newark Mayor Thomas L. Raymond announced plans for a new airport in Newark, which would be accessible due to the construction of the new Holland Tunnel and New Jersey State Route 1 (part of present-day U.S. Route 1/9) ("Newark Airport Plans" 1927, 12). The airport was to be constructed on 500 acres in the Port of Newark, in land described as "once a waste of useless swamp land" ("Where Airways Will Converge" 1928, 124).

The transportation network in the project area developed concurrently with the development of the airport, as described in SWEK/BRW's 1994 report for the first Northeast Corridor Connection Project:

In 1927, the Holland Tunnel had been completed and automobile traffic flooded the inadequate roads leading into New Jersey. The main route through Newark south to Elizabeth and on to Trenton still followed the old roads through Newark. The Essex and Middlesex Turnpike had been sold in the 1870s to the railroad. It was replaced by Frelinghuysen Avenue west of the project area. In 1915, Frelinghuysen Avenue was designated part of the Lincoln Highway, the first attempt to piece together an improved auto road coast to coast. The Lincoln Highway was declared New Jersey Route 1 in 1920 (Pavelec 1993:14-15, 37-37). It was not adequate for the traffic created by the Holland Tunnel. With plans to build the Pulaski Skyway already in place, a new road was needed to

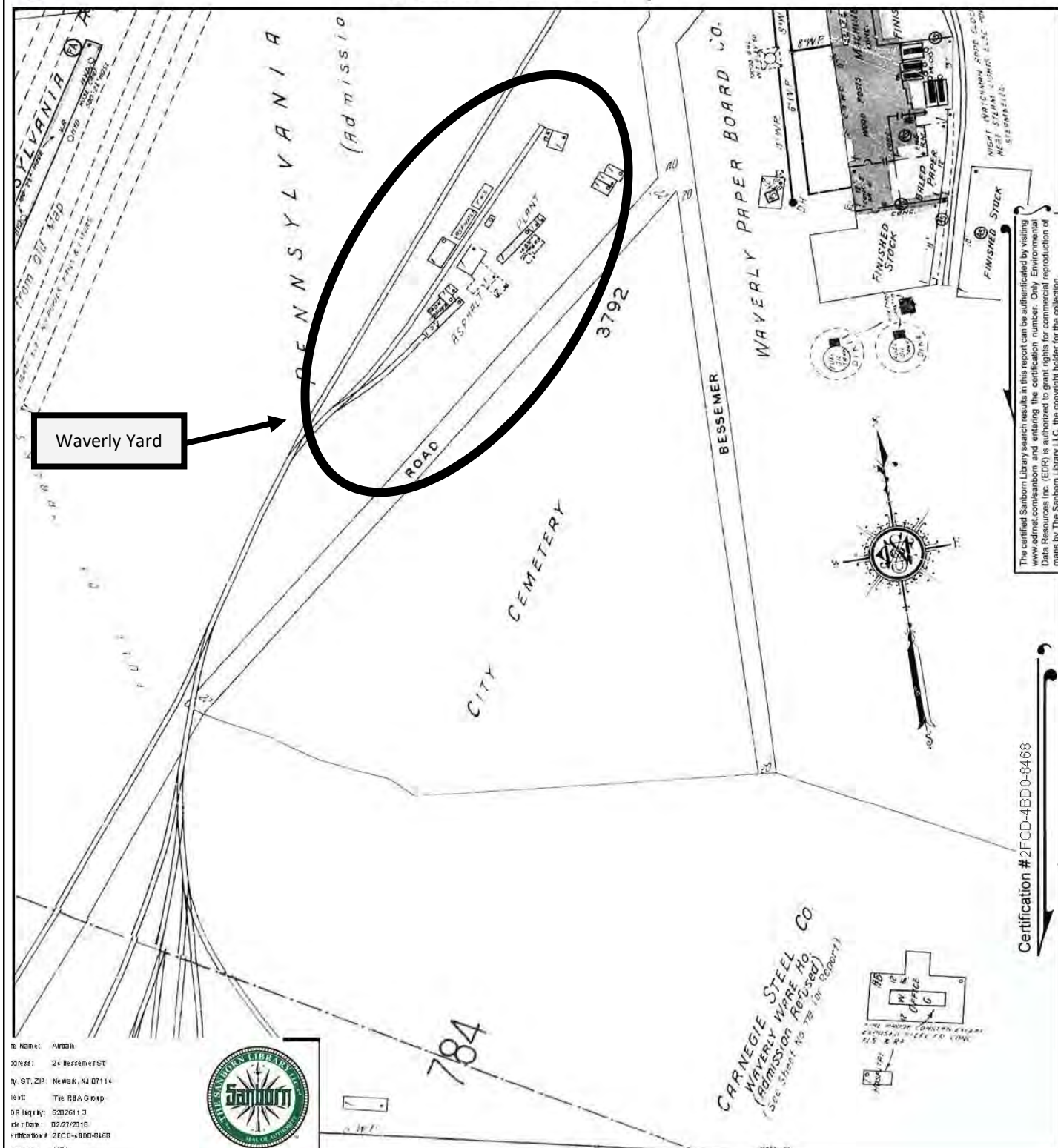
carry traffic around Newark, rather than through its center and downtown commercial streets. The new “State Superhighway” led from the Pulaski Skyway to Newark Airport and south to Elizabeth. It was built on fill at the meadow’s edge and is present day Carnegie [Avenue], still part of Routes 1 and 9, within the project area. The Meadow Road, after running through a succession of names – Waverly Avenue, Weston Avenue, Haynes Avenue – was rebuilt in 1930 (Michael Baker, Jr. 2001, 26-27).

The 1931 Sanborn map of the western portion of the project area (near the NEC; see Figure 4) shows Waverly Yard and the City Cemetery with an asphalt plant to the west, a paper board company to the north, and the large Carnegie Steel Company complex to the south.

By 1932, Newark Airport was described as the “busiest flying field in the world,” serving 91,559 passengers, or approximately one-fifth of the air passengers in the United States. (“Newark Airport Busiest” 1933, 2). This distinction did not last. In December 1939, LaGuardia Airport opened, and by May 1940, four major airlines, displeased with management issues at Newark, had relocated all of their operations from Newark to LaGuardia (Beyer Blinder Belle Architects & Planners 2000, 7). Newark was left with only one major airline, which only continued to operate for a year (Stowe and Altamuro 2004, 12).

During World War II, the United States military utilized Newark Airport, closing it to any civilian aircraft (Ibid.) and implementing numerous improvements, including construction of several new buildings and some runway extensions (Beyer Blinder Belle Architects & Planners 2000, 8). Following the war, there were three major developments that affected the project area. First, the City of Newark regained control of the airport, reopening it on February 4, 1946. A few months later, on May 17, 1946, Newark Mayor Vincent J. Murphy announced that the Anheuser-Busch Corporation was planning to spend \$20 million to build a new brewery on 50 acres along Route 25 that the company was purchasing from the United States Steel Corporation (“\$20,000,000 Beer Plant” 1946, 13). Finally, in 1946 the City began talks with the Port Authority for them to manage the airport. The Port Authority signed a lease in 1947 and took over management on March 31, 1948. Upon taking over management of the airport, they began work on a master plan for a \$50 million, 880-acre expansion, which included construction of the North Terminal as well as several support structures (Beyer Blinder Belle Architects & Planners 2000, 9).

The airport’s early development, located outside of the APE for the current project, is shown on the 1947 USGS quad sheet (see Figure 5). The 1950 Sanborn map (see Figure 6) shows one major change in the area near the NEC: the paper board company appears to have been demolished as the land to the east of the City Cemetery is shown as vacant. A 1951 aerial photograph, 1954 aerial photograph, and 1955 USGS quad sheet (see Figures 7 - 9) show the limited development of the airport; however, the 1954 aerial photograph and the 1955 quad sheet do show changes in the western portion of the project area. A large building had been constructed on the site of the paper board company and the original large Anheuser-Busch building had been constructed. By the time of a 1961 aerial photograph (see Figure 10), the building adjacent to the City Cemetery in the lot used by Kingsland Drum and Barrel Company had been constructed.





1947 USGS Quad Sheet

Map Reference: The National Map
<https://viewer.nationalmap.gov/basic/?base=map=b1&category=histopo,ustopo&title=Map%20View#productSearch>

THE PORT AUTHORITY OF NY & NJ

**Newark AirTrain Replacement Project
 Newark Liberty International Airport
 Newark/Elizabeth, NJ**

Figure 5



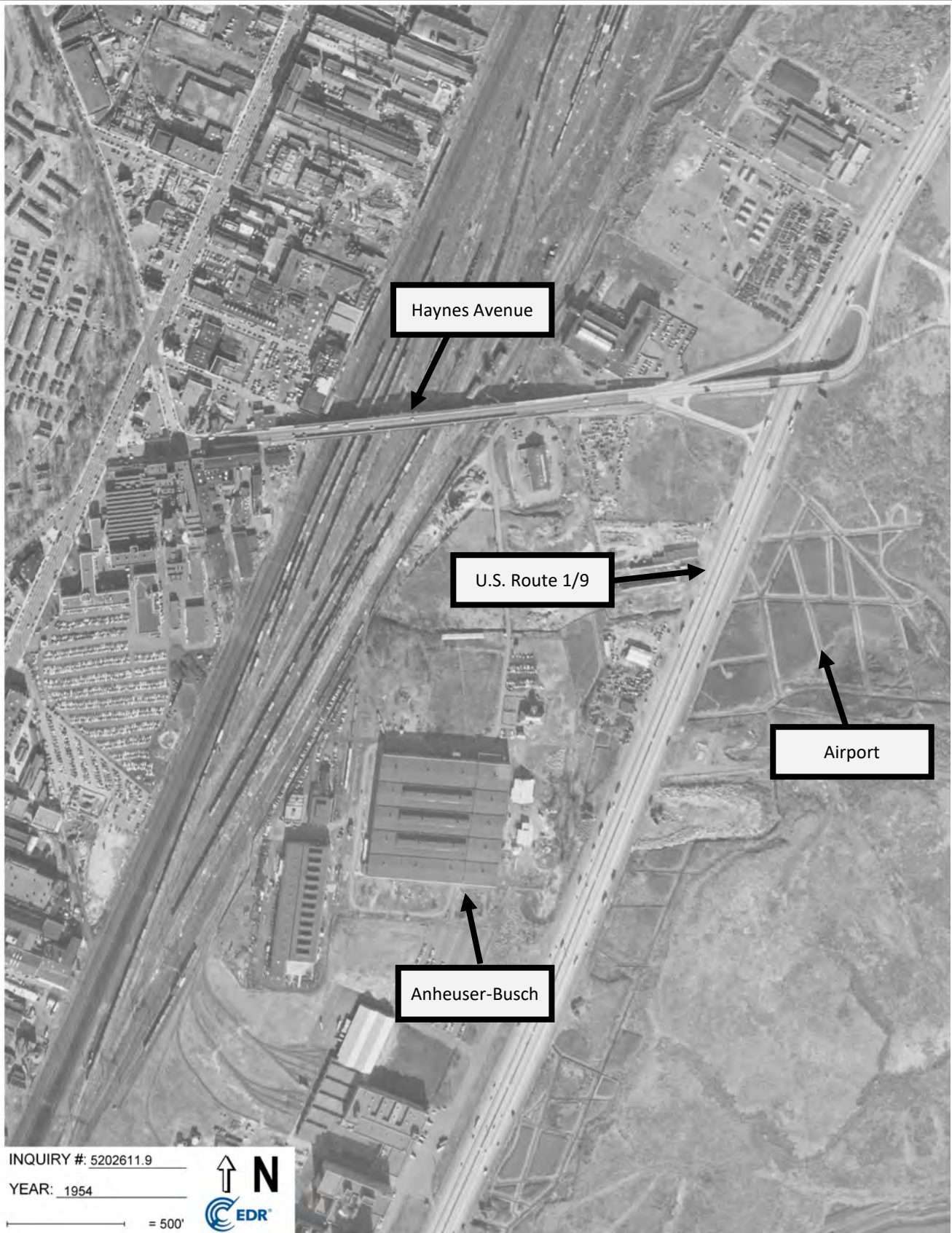
Figure 7

Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ

April 30, 1951 Aerial Photograph

Map Reference: N.J. Picture Collection, Newark Public Library

THE PORT AUTHORITY OF NY & NJ



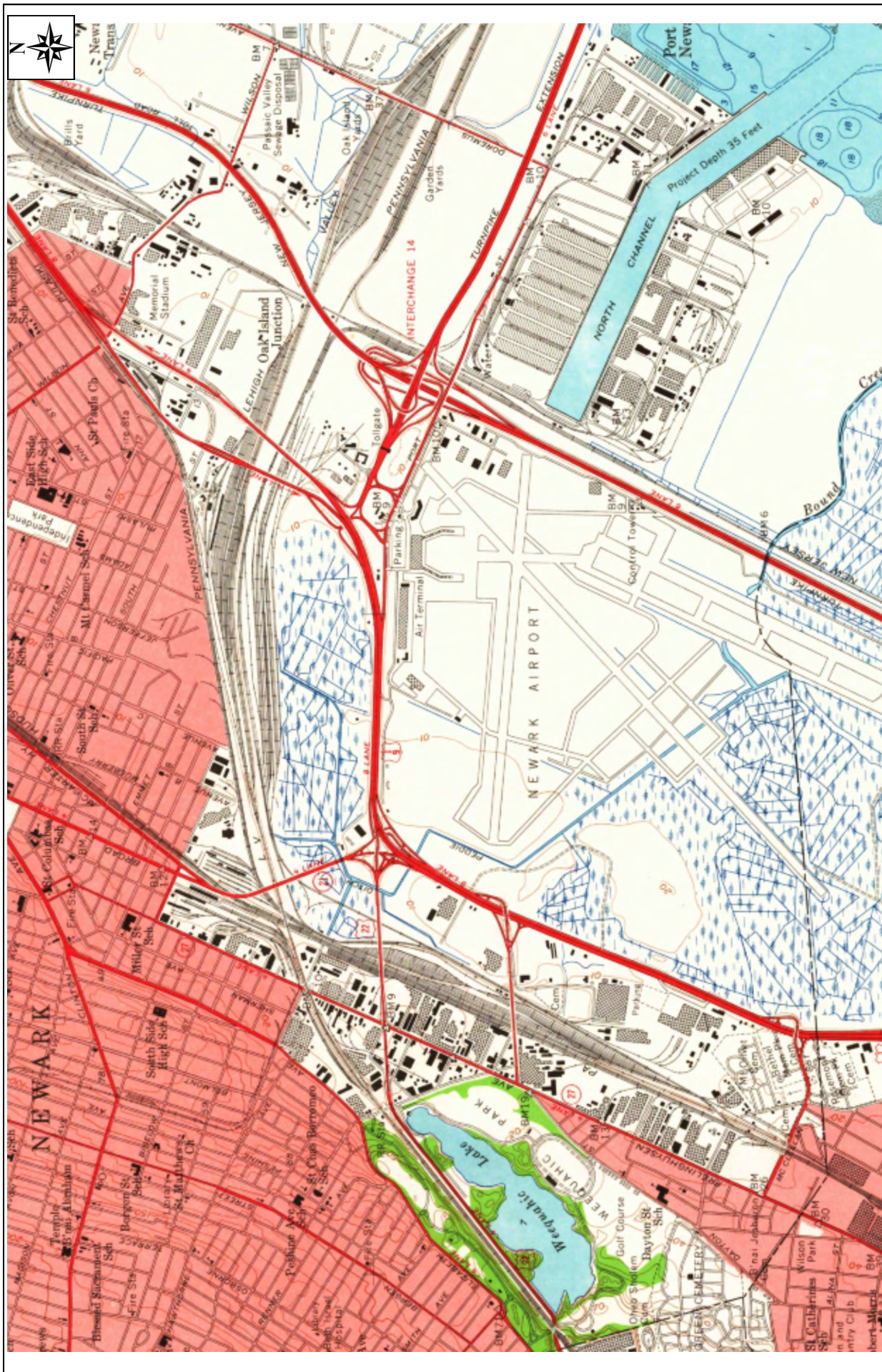
THE PORT AUTHORITY OF NY & NJ

1954 Aerial Photograph

Map Reference: EDR, The Sanborn Library, LLC

**Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ**

Figure 8



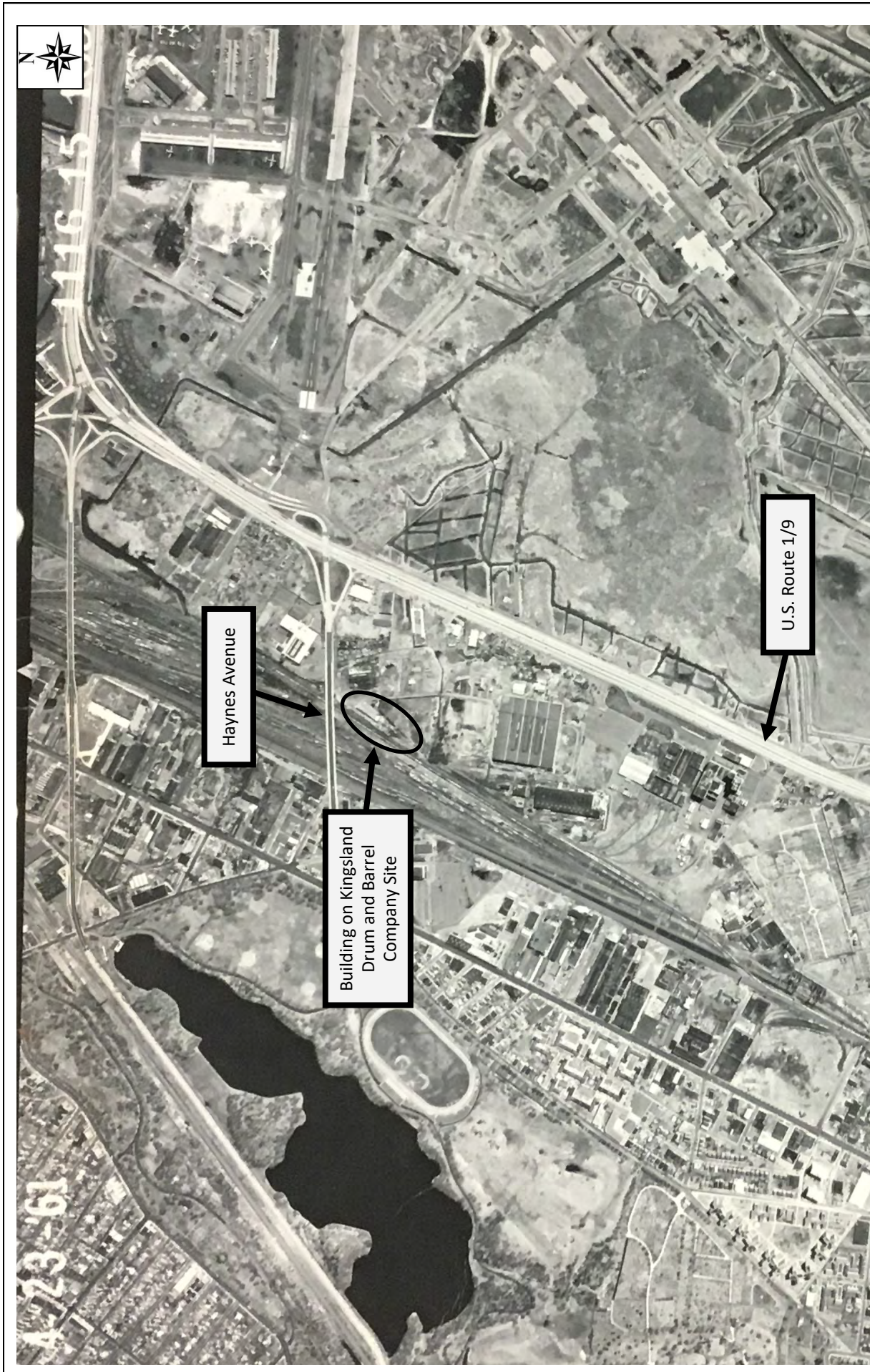
Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ

1955 USGS Quad Sheet

Map Reference: The National Map
<https://viewer.nationalmap.gov/basic/?basemap=b1&category=histopo,ustopo&title=Map%20view#productSearch>

THE PORT AUTHORITY OF NY & NJ

Figure 9



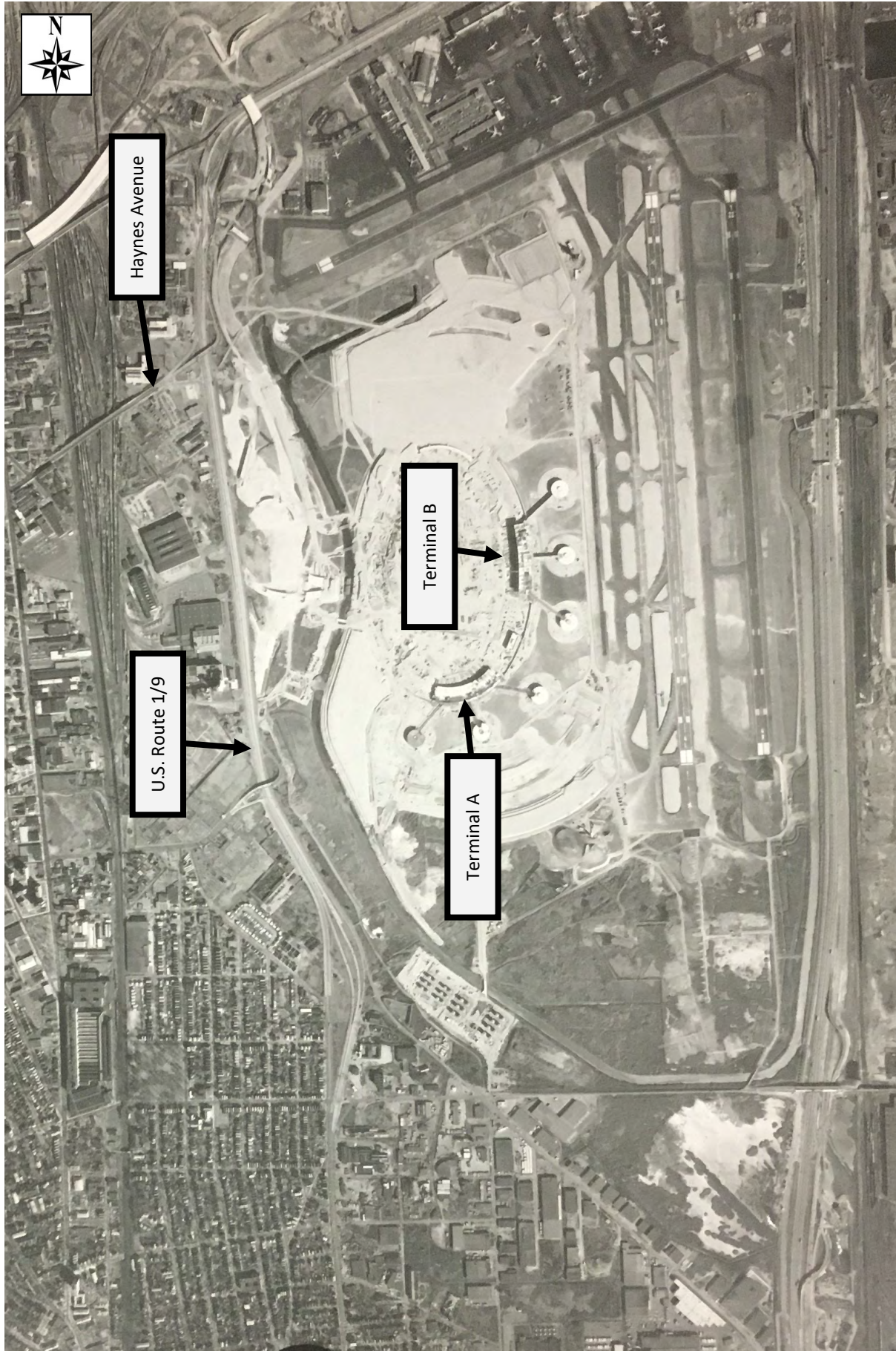
April 23, 1961 Aerial Photograph

Map Reference: N.J. Picture Collection, Newark Public Library

Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ

Figure 10

In the 1960s, the PANYNJ began plans for a \$400 million project to develop Terminals A, B, and C in order to increase the airport's operating capacity by over 50% ("Transport News and Notes" 1967, S25). A 1969 aerial photograph and a 1970 aerial photograph (see Figures 11 and 12) show the construction underway for the three new terminals, with Terminals A and B being the first two built. By the time a 1973 aerial photograph was taken (see Figure 13), Terminal C can be seen. The 1973 Sanborn map (see Figure 14) of the western portion of the project area depicts the Kingsland Drum and Barrel, Inc., the City Cemetery, and New Jersey Galvanizing & Tinning Works, Inc.



December 1969 Aerial Photograph

Map Reference: N.J. Picture Collection, Newark Public Library

Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ

Figure 11



Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ

February 26, 1970 Aerial Photograph
 Map Reference: N.J. Picture Collection, Newark Public Library



Figure 13

Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ

November 30, 1973 Aerial Photograph

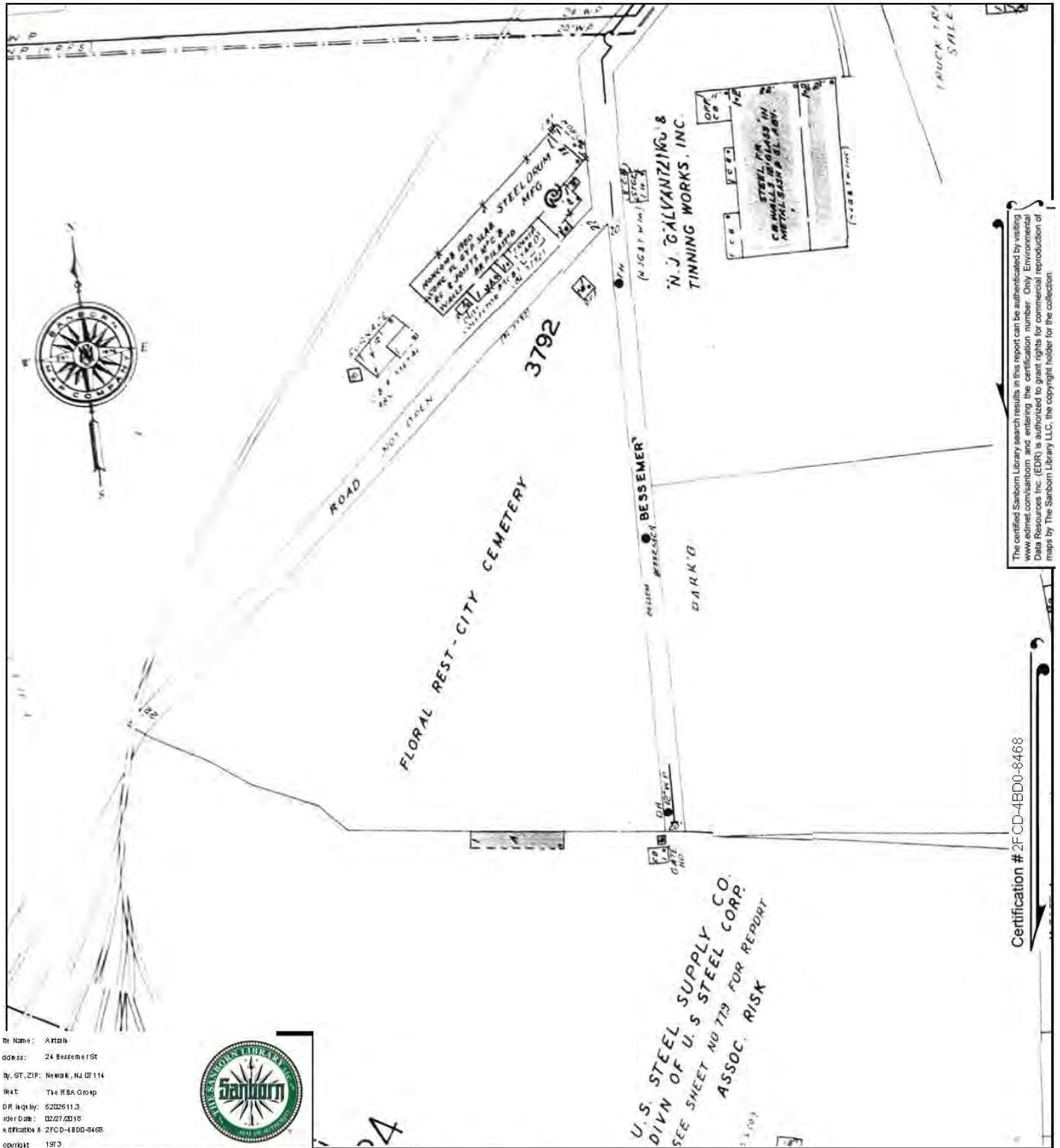
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THE PORT AUTHORITY OF NY & NJ



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Newark AirTrain Replacement Project
Newark Liberty International Airport
Newark/Elizabeth, NJ

Figure 14

SURVEY RESULTS

Previous Surveys

Newark Liberty International Airport is located in a somewhat isolated area, primarily surrounded by modern commercial facilities and a few older industrial facilities near the NEC. As a result, this is an area where very few cultural resources studies have been conducted. In the mid-1980s, however, the following comprehensive historic sites surveys were conducted for portions of both Newark and Elizabeth:

- Heritage Studies. *Historic Sites Survey of Elizabeth, New Jersey*. Princeton, New Jersey, October 1984; revised September 1985.
- Meadows, Robert E. *Cultural Resources Survey of Downtown Newark, New Jersey, 1985*. Prepared for Renaissance Newark. New York: Robert E. Meadows, P.C. Architect, 1985.

Although the airport was not included in these surveys, they do provide useful background historic context material, especially related to the two cities' industrial and transportation history.

The other previous surveys or studies that are relevant to Newark Liberty International Airport and its general vicinity include:

- De Leuw, Cather/Parsons. *Historic and Archaeological Resources of the Northeast Corridor, New Jersey*, 1979
- *Phase I Cultural Resource Survey Newark International Airport Redevelopment Program, Newark, New Jersey*, by Louis Berger & Associates, Inc., November 1989
- *Stage 1A Cultural Resources Survey for the Newark International Airport Access Automated People Mover, Northeast Corridor Connection Project*, by Historical Perspectives, Inc., June 1994
- *Phase I Archaeological and Phase I/II Historic Architecture Survey of the Haynes Avenue at Route 1 & 9 Project Area, City of Newark, Essex County, New Jersey*, by Michael Baker, Jr., January 2001

Resources Previously Identified

As a result of the previous studies, the following historic properties were either included in the NRHP or evaluated as eligible for inclusion:

- The Haynes Avenue Bridge over the NEC was surveyed as part of the New Jersey Department of Transportation's *New Jersey Historic Bridge Survey*. On June 2,

1991, the New Jersey State Historic Preservation Officer (SHPO) evaluated the bridge as eligible for inclusion in the NRHP.

- On October 2, 2002, the NJ SHPO evaluated Amtrak's NEC as eligible for inclusion in the NRHP as the Pennsylvania Railroad New York to Philadelphia Historic District. This SHPO Opinion was subsequently updated and clarified on March 3, 2003 and January 14, 2015.
- Newark Metropolitan Airport: Administration Building, Brewster Hangar, and Medical Building. These buildings were included in the New Jersey Register of Historic Places on June 25, 1980 and in the NRHP on December 12, 1980. Brewster Hangar was demolished ca. 1980; the Administration Building was relocated in 2002; and the Medical Building is in its original location. The two extant buildings are located on the Newark Liberty International Airport property; however, they are outside of the current project's APE.
- On March 7, 1996, the NJ SHPO identified the U.S. Route 1/9 Historic District as eligible for inclusion in the NRHP.

Current Cultural Resources Assessment

As part of the current historic sites inventory, the following properties 45 years or older were surveyed at the intensive level:

- Newark Airport Terminals A, B, and C
- Anheuser-Busch, Inc.
- Kingsland Drum and Barrel, Inc.
- New Jersey Galvanizing and Tinning Works, Inc.

Newark Liberty International Airport's Terminals A, B, and C, constructed in 1973, were 45 years old at the time of this study. However, due to the long-term nature of the project currently under consideration, the terminals have been evaluated to assess if they meet the Criteria for Inclusion in the NRHP. The evaluation of the terminals' potential architectural significance was guided by the methodology in the National Parks Service's *American Aviation Heritage: Identifying and Evaluating Nationally Significant Properties in U.S. Aviation History, A National Historic Landmarks Theme Study*, with the understanding that the current assessment is for eligibility for inclusion in the NRHP rather than eligibility for National Historic Landmark (NHL) status. The NHL theme study recommends taking into consideration three design factors for air terminals: embodying state-of-the-art design; serving as a model or precursor that represents a generation of airports; or introducing innovations enormously influential on airport design throughout the country.

Terminals A, B, and C were designed by an in-house team of architects and engineers. Studies of mid-to-late twentieth-century airports emphasize numerous airport terminals designed by architectural masters, including architect Eero Saarinen's designs at Dulles International Airport and John F. Kennedy (JFK) International Airport, and I.M. Pei's

design at JFK International Airport. In comparison to the work of true architectural masters, Terminals A, B, and C would not meet the test of work by a master. In terms of the factors considered for NHL designation (i.e., embodying state-of-the-art design; serving as a model or precursor that represents a generation of airports; or introducing innovations enormously influential on airport design throughout the country), Terminals A, B, and C were evaluated in terms of the characteristics emphasized when they opened in the period of 1973-1985. By that time, other cities had terminals exemplifying the following key features, namely:

- Modern concrete exteriors with wide expanses of glass and overhanging cantilevered roofs. These features were part of many of the terminals that preceded Newark Liberty International, including Dulles International Airport (1962), JFK's TWA Terminal 5 (1962), Memphis International Airport (1963), LaGuardia Airport (1964), and JFK's National Airlines Terminal (1970).
- Separation of arriving and departing passengers by floor levels. This feature was incorporated into O'Hare International Airport.
- Circular arrangement of multiple terminals. This feature was part of Dallas / Fort Worth International Airport.
- Open interior space with ability to individualize the design. This feature was part of Dulles' International Airport's main terminal.

Based on the above analysis, Terminals A, B, and C at Newark Liberty International Airport do not meet the Criteria for Inclusion in the NRHP.

The Anheuser-Busch facility was evaluated as not meeting the criteria for inclusion in the NRHP. Historically, small family-run breweries were a significant part of Newark's industrial history, primarily due to the mid-nineteenth century immigration of Germans settling in Newark. In contrast, Anheuser-Busch is a large national corporation based in St. Louis, Missouri. Of the approximately 50 breweries that operated in Newark, Anheuser-Busch's arrival in 1950 makes it the last brewery to open in Newark. Architecturally, the complex is not distinctive, nor it is the work of a master.

The two mid-twentieth century industrial buildings, the vacant concrete block Kingsland Drum and Barrel Company building at 133-135 Haynes Avenue and the New Jersey Galvanizing & Tinning Works, Inc. at 139 Haynes Avenue, were evaluated as neither architecturally nor historically significant and, therefore, are not eligible for inclusion in the NRHP.

Conclusion

There are three previously identified historic properties within the current project's APE: Amtrak's Northeast Corridor (NEC), the Haynes Avenue Bridge over the NEC, and the U.S. Route 1/9 Historic District, and two historic properties on airport property but outside of the APE: Newark Metropolitan Airport Administration Building and Medical Building. However, the additional four properties (Newark Airport Terminals A, B, and C; Anheuser-Busch, Inc.; Kingsland Drum and Barrel, Inc.; and New Jersey Galvanizing and Tinning Works, Inc.) that were evaluated as part of this study were evaluated as not meeting the Criteria for Inclusion in the NRHP.

ASSESSMENT OF EFFECTS

The federal Advisory Council on Historic Preservation has developed regulations (36 CFR Part 800) to implement Section 106 of the National Historic Preservation Act. According to these regulations, “An undertaking has an effect on a historic property when the undertaking may alter characteristics of the property that may qualify the property for inclusion in the National Register. For the purpose of determining effect, alteration to features of the property’s location, setting, or use may be relevant depending on a property’s significant characteristics and should be considered” (36 CFR Part 800.9a).

If a proposed undertaking will have an effect on a NRHP-listed or eligible resource, the Advisory Council on Historic Preservation’s regulations call for an evaluation as to whether or not the effect will be adverse. According to the Advisory Council’s regulations, “An undertaking is considered to have an adverse effect when the effect on a historic property may diminish the integrity of the property’s location, design, setting, materials, workmanship, feeling or association.” Adverse effects on historic properties include, but are not limited to:

- (1) Physical destruction, damage, or alteration of all or part of the property;
- (2) Isolation of the property from or alteration of the character of the property’s setting when that character contributes to the property’s qualification for the National Register;
- (3) Introduction of visual, audible or atmospheric elements that are out of character with the property or alter its setting;
- (4) Neglect of a property resulting in its deterioration or destruction, and
- (5) Transfer, lease, or sale of the property. (36 CFR Part 800.9b)

The evaluation of the proposed project’s potential effects on the historic resources within the APE took into consideration several key factors, including the nature of both the historic resources and the project area, and the distance between the proposed project and the historic resources. All of the identified historic resources, Amtrak’s NEC, the Haynes Avenue Bridge over the NEC, Newark Metropolitan Airport Administration Building and Medical Building, and the U.S. Route 1/9 Historic District, are transportation resources and are located within a heavily developed area. The NRHP-listed Newark Metropolitan Airport Administration Building and Medical Building are located within the Newark Liberty International Airport, but they are far enough removed from the project site that they will not be directly or visually affected. The other three historic resources, Amtrak’s NEC, the Haynes Avenue Bridge over the NEC, and the U.S. Route 1/9 Historic District, will be affected; however, due to the nature of these resources and the fact that the project consists of replacement of an existing AirTrain system, the effect will not be adverse.

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April 23, 1961 aerial photograph, Tri-State Transportation Committee. Philadelphia, PA: Aero Service Corporation, 1962, N. J. Picture Collection, Newark Public Library.

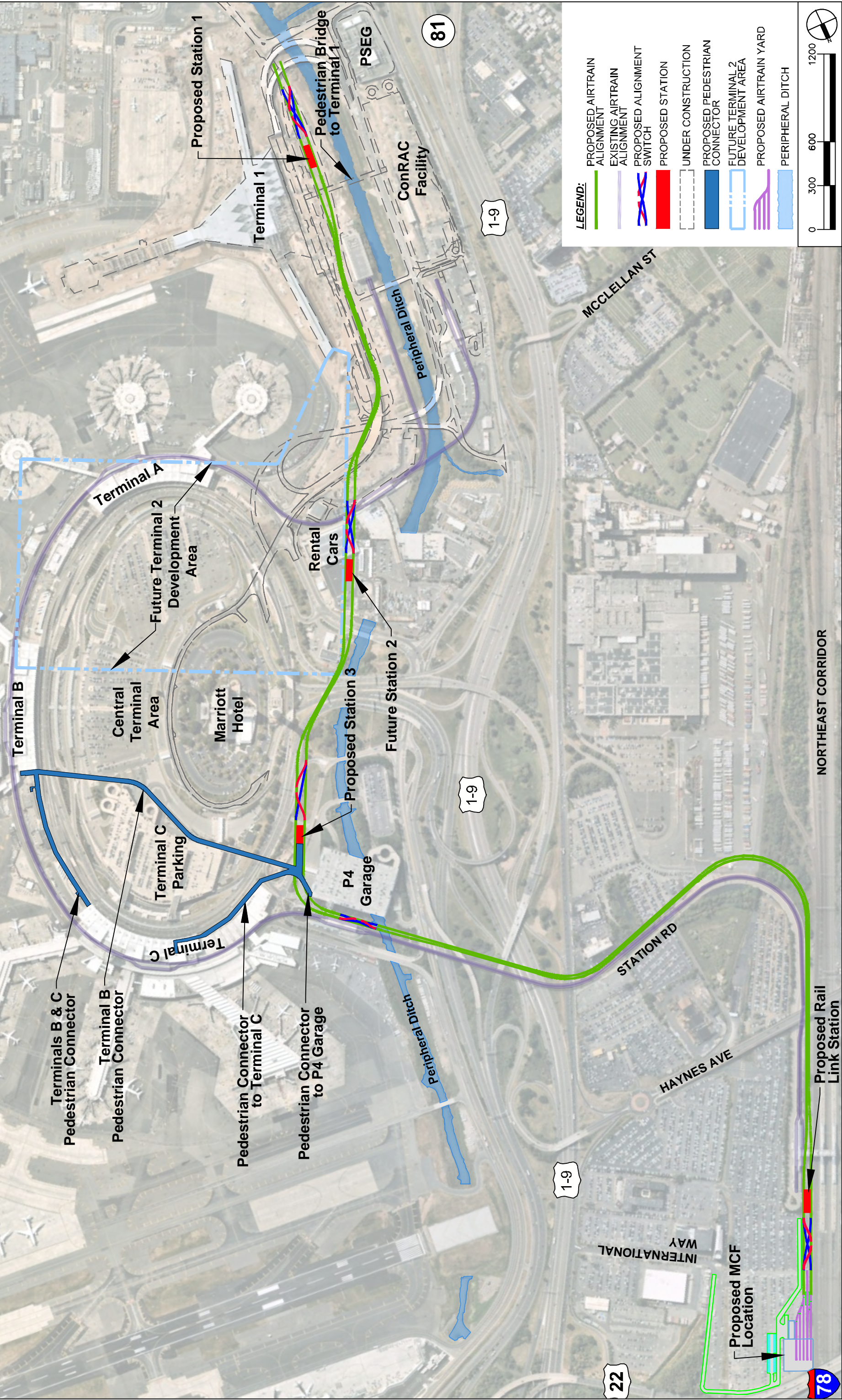
December 1969 aerial photograph, N. J. Picture Collection, Newark Public Library.

November 30, 1973 aerial photograph, N. J. Picture Collection, Newark Public Library.

N.J. Picture Collection, Newark Public Library.

Appendix A

Project Plans



 AIR LAND RAIL SEA	Source: Lea+Elliott; Aerial Imagery by NearMap, 09/20/2019.	PROPOSED ACTION: AIRTRAIN REPLACEMENT SYSTEM		Figure 1-5

Appendix B

List of Consulting Parties

Consulting Parties

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Honorable Brendan W. Gill
Freeholder President
Board of Chosen Freeholders, County of Essex
Hall of Records
465 Dr. Martin Luther King Jr. Blvd., Room 558
Newark, New Jersey 07102

Honorable Alexander Mirabella
Freeholder Chairman
Board of Chosen Freeholders, County of Union
10 Elizabethtown Plaza
Elizabeth, NJ 07207

Honorable Ras J. Baraka
Mayor, City of Newark
City Hall
920 Broad Street
Newark, NJ 07102

Honorable J. Christian Bollwage
Mayor, City of Elizabeth
City Hall
50 Winfield Scott Plaza
Newark, NJ 07201

Ms. Kim Penrod
Section 106 Manager
Delaware Nation
31064 US Highway 281
Building 100
Anadarko, OK 73005

Dr. Brice Obermeyer
Tribal Historic Preservation Officer
Delaware Tribe Historic Preservation Office
Roosevelt Hall, Room 212
1200 Commercial Street
Emporia, KS 66801

Ms. Jodi Hayes
Tribal Administrator
The Shawnee Tribe
29 South Highway 69A
Miami, OK 74355

Ms. Kathy Kakaletis
Administrator
Union County Office of Cultural
and Heritage Affairs
633 Pearl Street
Elizabeth, NJ 07202

Mr. Richard Partyka
Chairperson
Newark Landmarks and Historic Preservation Commission
920 Broad Street, Room 112
Newark, NJ 07102

Ms. Elizabeth Del Tufo
President
Newark Preservation & Landmarks Committee
PO Box 1066
Newark, NJ 07101

Archaeological Society of New Jersey
c/o New Jersey State Museum
Bureau of Archaeology & Ethnography
PO Box 530
Trenton, NJ 08625-0530

Appendix C

Historic Sites Inventory Forms

BASE SURVEY FORM

Historic Sites #:

Property Name: Newark Liberty International Airport Terminals A, B, and C

Street Address: *Street #:* N/A *Apartment #:* _____
(Low) (High) (Low) (High)

Prefix: _____ *Street Name:* _____ *Suffix:* _____ *Type:* _____

County(s): Essex

Zip Code: 07114

Municipality(s): Newark, Elizabeth

Block(s): 5904, 1

Local Place Name(s): _____

Lot(s): 1, 2104

Ownership: Port Authority of NY & NJ

USGS Quad(s): Elizabeth, N.J. – N.Y.

The three large curvilinear main terminals with identical facades, are situated in a semi-circular pattern. Each terminal has three levels, with arriving and departing passengers separated by levels. The facades consist of large concrete columns that support a flat cantilevered roof. Flanking the columns are expansive walls of tinted glass that are arch-shaped at the upper level. The rear of each terminal connects with smaller terminals that are shaped like spokes of a wheel.

**Registration and
Status Dates:**

National Historic
Landmark: _____

SHPO Opinion: _____

National Register: _____

Local Designation: _____

New Jersey Register: _____

Other Designation: _____

Determination of Eligibility: _____

Other Designation Date: _____

Photograph:



Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

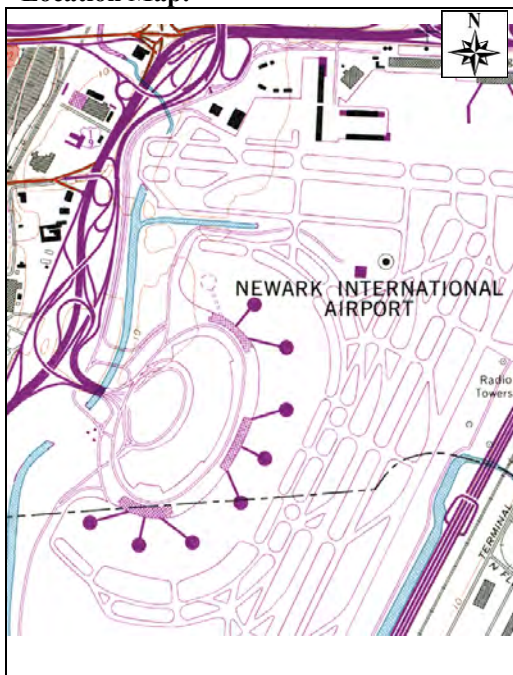
Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

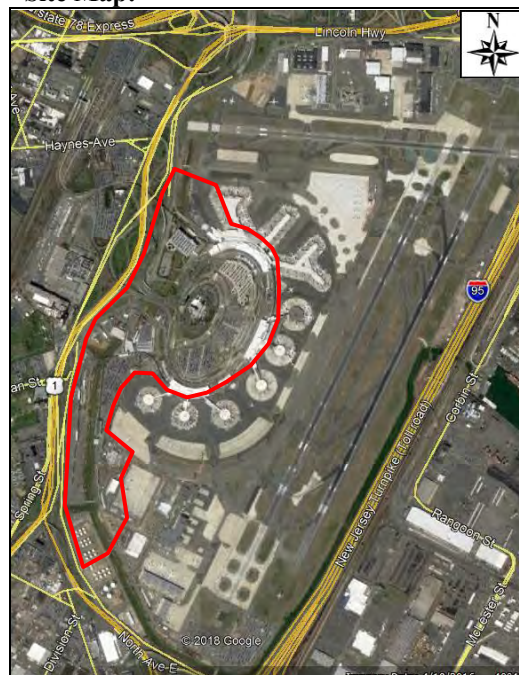
BASE SURVEY FORM

Historic Sites #:

Location Map:



Site Map:



Bibliography/Sources:

See Continuation Sheet.

Additional Information:

More Research Needed? ☐ Yes ☒ No

INTENSIVE LEVEL USE ONLY

Attachments Included: ☒ Building ☐ Structure ☐ Object ☐ Bridge
☐ Landscape ☐ Industry

Within Historic District? ☐ Yes ☒ No

Status: ☐ Key-Contributing ☐ Contributing ☐ Non-Contributing

Associated Archaeological Site/Deposit? ☐ Yes ☒ No
(Known or potential Sites – if yes, please describe briefly)

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

Date: June 2018

BUILDING/ELEMENT ATTACHMENT

Historic Sites #:

☒ BUILDING ☐ STRUCTURE ☐ OBJECT

Common Name: Newark Liberty International Airport Terminals A, B, and C

Historic Name: Newark Liberty International Airport Terminals A, B, and C

Present Use: Transportation and Movement Activity

Historic Use: Transportation and Movement Activity

Construction Date: 1973; 1988

Source: Contemporary newspaper accounts

Alteration Date(s): _____

Source: _____

John P. Veerling, Sheldon D. Wander, George E.

Designer: Ralph

Terminal C: Frank Briscoe Company / Walter

Physical Condition: Excellent

Builder: Kidde Constructors

Remaining Historic Fabric: High

Style: N/A

Form: N/A

Stories: N/A

Type: N/A

Bays: N/A

Roof Finish Materials: N/A

Exterior Finish Materials: concrete

Exterior Description:

The three large curvilinear main terminals with identical facades, are situated in a semi-circular pattern. Each terminal has three levels, with arriving and departing passengers separated by levels. The facades consist of large concrete columns that support a flat cantilevered roof. Flanking the columns are expansive walls of tinted glass that are arch-shaped at the upper level. The rear of each terminal connects with smaller terminals that are shaped like spokes of a wheel.

Interior Description: The interiors, designed to emphasize openness, were individually designed by the respective airline companies.

Setting: The terminals are located at the southern end of the large airport complex.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

ELIGIBILITY WORKSHEET

Historic Sites #:

History:

See Continuation Sheet.

Statement of Significance:

See Continuation Sheet.

Eligibility for New Jersey
and National Registers:

☐ Yes

☒ No

National
Register Criteria:

☐ A

☐ B

☐ C

☐ D

Level of Significance:

☐ Local

☐ State

☐ National

Justification of Eligibility/Ineligibility:

See Continuation Sheet.

For Historic Districts Only:

Property Count: Key Contributing: _____ Contributing: _____ Non Contributing: _____

For Individual Properties Only:

List the completed attachments related to the property's significance:

N/A

Narrative Boundary Description:

Within the airport property, the APE-AH is limited to the location of the three main terminals (A, B, and C).

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

Date: June 2018

CONTINUATION SHEET

Historic Sites #:

History:

On August 3, 1927, Newark Mayor Thomas L. Raymond announced plans for a new airport in Newark, which would be accessible due to the construction of the new Hudson Tunnel and New Jersey State Route 1 ("Newark Airport Plans," August 4, 1927, 12). The airport was to be constructed on 500 acres in the Port of Newark, in land described as "once a waste of useless swamp land" ("Where Airways Will Converge," February 19, 1928, 124). By 1932, Newark Airport was described as the "busiest flying field in the world," serving 91,559 passengers, or approximately one-fifth of the air passengers in the United States ("Newark Airport Busiest," February 11, 1933, 2). This distinction did not last, however. In December 1939, La Guardia Airport opened, and by May 1940 four major airlines, displeased with management issues at Newark, had relocated all of their operations from Newark to La Guardia (Beyer Blinder Belle Architects & Planners, 2000, 7). Newark was left with only one major airline, which only continued to operate for one additional year (Stowe and Altamuro, 2004, 12).

During World War II, the United States military utilized Newark Airport, closing it to any civilian aircraft (Stowe and Altamuro, 2004, 12), and implementing numerous improvements including extending runways and constructing new buildings (Beyer Blinder Belle Architects & Planners, 8). Following the war, the City of Newark regained control of the airport, reopening it on February 4, 1946. In the same year, the City began talks with the Port of New York Authority, currently the Port Authority of New York and New Jersey ("PA") for them to manage the airport. The PA signed a lease in 1947 and took over management on March 31, 1948. Buildings on the site prior to the PA taking over included the Air Mail and Express Building (formerly the Administration Building), a triple hangar, emergency garage, C-O-Two Industrial Building, and the Newark Air Service Hangar ("Fact Sheet, Newark Airport," April 1972).

Upon taking over management of the airport, the PA began work on a master plan for a \$50 million, 880-acre expansion (Beyer Blinder Belle Architects & Planners, 2000, 9). This expansion program included the construction of the "North Terminal," which opened on July 29, 1953 and was demolished in 1997 (Ibid., 10; "Fact Sheet, Newark Airport," April 1972). Other buildings that date from the period of the PA management in the 1940s and 1950s include the Cummins Diesel Industrial Building completed in June 1957; the United Air Lines two-bay hangar completed in March 1958; a control tower completed in July 1959; a four-building Air Cargo Center completed in December 1959; several utility, equipment, and storage buildings, a flight kitchen, and a fuel storage area ("Fact Sheet, Newark Airport," April 1972).

On October 8, 1967, New Jersey Governor Richard J. Hughes drove the first pile for the construction of two new passenger terminals. This construction was part of a \$200 million redevelopment, which was initiated in 1963 with the goal of increasing the airport's operating capacity by over 50% ("Transport News and Notes," October 8, 1967, S25). Just prior to the opening of the new terminals, the project was described as "a \$400-million complex consisting of three large crescent-shaped main terminals, each with soaring, cantilevered roofs and walls of tinted glass, and nine smaller terminals that radiate from the main buildings like spokes." The terminals were praised for their use of split level roadways for departing and arriving flights, but criticized for the need to cut costs by eliminating "moving sidewalks" to cut down on long walks (Lindsey, July 1, 1973, 169).

The Port Authority's annual reports do not provide information concerning the designers of the new terminals, and unfortunately many of the Port Authority's internal records were lost in the September 11, 2001 disaster. However, external sources credit in-house Port Authority staff with the design of the three new terminals. John Zukowsky's 1996 book, *Building for Air Travel, Architecture and Design for Commercial Aviation*, was developed to supplement an exhibit at The Art Institute of Chicago. The book's appendix provides a rather comprehensive list of designers for "Airports, Related Facilities, and Airliners, 1915-1995." Newark International Airport's three 1970s terminals are credited to "John P. Veerling, Sheldon D. Wander and George E. Ralph, architects" (Zukowsky 1996, 246). John P. Veerling was appointed as the Port Authority's Chief of Aviation Planning in October 1958 ("Port Authority Appoints 3," October 13, 1958, 51) and served in this capacity during the time when the three terminals were planned and designed.

Terminal A opened on August 7, 1973, at which time it was depicted in section plan in *The New York Times* (see Continuation Sheet) (Burks, August 6, 1973, 59). Approximately one month later, on September 12, 1973, Terminal B was dedicated (Finston, September 13, 1973) and it opened on September 24, 1973 (Waggoner, September 25, 1973, 90). Contemporary press announcements emphasized the terminals' modern, efficient, and open design:

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

CONTINUATION SHEET

Historic Sites #:

A decade of ingenuity in planning and design has culminated in the opening of the new Newark International Airport...most modern in the nation...The main structural 'trademark' of the airport is the shapes like inverted square umbrellas tapering to thin columns, which make up the terminal buildings' outline. These forms are known in architectural circles as hyperbolic paraboloid-shaped modules. The overall effect is open, airy and uncongested. The openness and the spacious split-level design of the new terminals enable the airport patron to easily orient himself to his surroundings. The terminals bring airside and groundside together, yet maintain the separation needed for convenience and efficiency (Harris, September 16, 1973).

In evidence throughout the terminals is a feeling of uncluttered spaciousness providing ease of movement. This is made possible through the basic structural system, technically described as a 'hyperbolic paraboloid,' a series of inverted, concrete 'umbrellas' – significant for its dramatic effect as well as usefulness (O'Leary, September 11, 1973).

The design process they used was described as having been tried out in model form "and then successfully incorporated into the architecture to provide for more column free space" ("Newark Airport At 45 Flies High Again," September 11, 1973). Grad Partnership of Newark is credited with designing the interior of Terminal A (Kukla, September 16, 1973).

In April 1972, the PA announced the two contractors selected for Terminal C construction were Frank Briscoe Company of Newark and Walter Kidde Constructors of New York ("Two Contractors Get Newark Terminal Job," April 24, 1972, 38). At the time that the first two terminals opened, it was anticipated that Terminal C would open in 1976 (Finston, September 13, 1973). However, construction on that terminal stopped in 1974 due to a decline in the volume of air traffic. In 1985, People Express Airlines signed a 25-year lease of the terminal with the agreement that they would complete its construction ("People Express Leases Unfinished Newark Airport Terminal," January 20, 1985, 36). The terminal was fully opened as of 1988 (Collins, April 27, 2002, B1).

Statement of Significance:

Terminals A, B, and C represent Newark Liberty International Airport's late 20th century expansion; however, neither this historic development nor the architectural design of the terminals meets the Criteria for Inclusion in the National Register of Historic Places.

Justification of Eligibility/Ineligibility:

Constructed in 1973, the terminals were at the time of this evaluation 45 years old. However, due to the long-term nature of the project currently under consideration, the terminals have been evaluated to assess if they meet the Criteria for Inclusion in the National Register of Historic Places. There is no known historic association meeting National Register Criterion A or association with an individual meeting National Register Criterion B; therefore, the main potential significance would be architectural under National Register Criterion C.

The evaluation of the terminals' potential architectural significance was guided by the methodology in the National Parks Service's *American Aviation Heritage: Identifying and Evaluating Nationally Significant Properties in U.S. Aviation History, A National Historic Landmarks Theme Study*, with the understanding that the current assessment is for eligibility for inclusion in the National Register of Historic Places rather than eligibility for National Historic Landmark (NHL) status. The NHL theme study recommends taking into consideration three design factors for air terminals: embodying state-of-the-art design; serving as a model or precursor that represents a generation of airports; and introducing innovations enormously influential on airport design throughout the country.

Terminals A, B, and C were designed by an in-house team of architects and engineers. Studies of mid to late 20th century airports emphasize numerous airport terminals designed by architectural masters, including:

- 1956, Lambert-St. Louis International Airport Terminal, architect Minoru Yamasaki, a three-domed main terminal building considered the forerunner of modern terminal design.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

CONTINUATION SHEET

Historic Sites #:

- 1962, Dulles International Airport, architect Eero Saarinen, considered one of the most modern airports at the time it opened.
- 1962, TWA Terminal 5, John F. Kennedy International Airport, architect Eero Saarinen, considered a significant example of mid-20th century modern architecture.
- 1970, National Airlines Terminal, John F. Kennedy International Airport, architect I. M. Pei.
- 1976-78, Haj Terminal, King Abdul Aziz International Airport, Jeddah, Saudi Arabia, architects Skidmore, Owings and Merrill.

In comparison to the work of true architectural masters, Terminals A, B, and C would not meet the test of work by a master. In terms of the factors considered for NHL designation, i.e., embodying state-of-the-art design, serving as a model or precursor that represents a generation of airports, or introducing innovations enormously influential on airport design throughout the country, Terminals A, B, and C were evaluated in terms of the characteristics emphasized when they opened in the period of 1973-1985. By that time, other cities had terminals exemplifying key features, namely:

- Modern concrete exteriors with wide expanses of glass and overhanging cantilevered roofs. These features were part of many of the terminals that preceded Newark International, including Dulles (1962), JFK's TWA Terminal 5 (1962), Memphis (1963), La Guardia (1964), and JFK's National Airlines Terminal (1970).
- Separation of arriving and departing passengers by floor levels. This feature was incorporated into O'Hare Airport.
- Circular arrangement of multiple terminals. This feature was part of Dallas / Fort Worth's airport.
- Open interior space with ability to individualize the design. This feature was part of Dulles' terminal.

Based on the above analysis, Terminals A, B, and C at Newark International Airport do not meet the Criteria for Inclusion in the National Register of Historic Places.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

Date: June 2018

CONTINUATION SHEET

Historic Sites #:



Terminal C, Newark Liberty International Airport, January 11, 2018.



Terminal B, Newark Liberty International Airport, January 11, 2018.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport
Surveyor: Nancy L. Zerbe
Organization: ARCH², Inc.

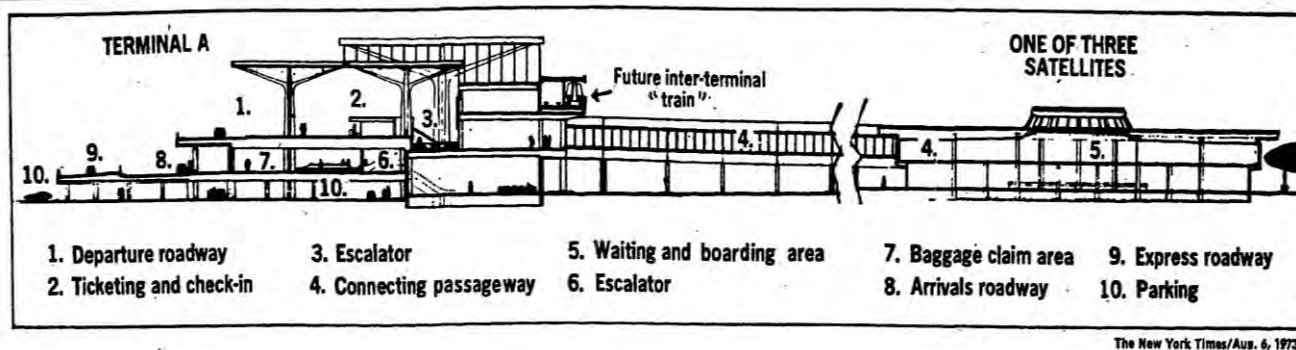
Date: June 2018

CONTINUATION SHEET

Historic Sites #:



1966 Photograph of the model for Terminals A, B, and C at Newark Liberty International Airport
Source: N.J. Picture Collection, Newark Public Library.



1973 Section Diagram of Terminal A at Newark Liberty International Airport
Source: Burks, Edward C. "Newark Airport Opening First of 3 New Terminals." *The New York Times*. 6 August 1973, 59.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

CONTINUATION SHEET

Historic Sites #:

Bibliography/Sources:

Beyer Blinder Belle Architects & Planners. *Newark International Airport, Administration Building (Newark International Airport, Building 51), North Area of Newark International Airport, Brewster Road Between Intersections of Brewster Road and Route 1 and Brewster Road and New Jersey Turnpike Exchange 14, Newark Vicinity, Essex County, New Jersey, HAER No. NJ-133-B*. Philadelphia, PA: National Park Service, Philadelphia Support Office, 2000.

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Collins, Glenn, "Slow Return as Hub for Aviation," *The New York Times*, 27 April 2002, B1.

Doig, Jameson W., "Newark Liberty International Airport," *Encyclopedia of New Jersey*, Edited by Maxine N. Lurie and Marc Mappen. New Brunswick, NJ: Rutgers University Press, 2004, 563-564.

"Fact Sheet, Newark Airport." N. J. Picture Collection, on file at Newark Library, April 1972.

Finston, Mark, "Terminal 'B' Dedicated, Newark Airport Keeps on Growing," *Star-Ledger*, 13 September 1973.

Greif, Martin. *The Airport Book: From Landing Field to Modern Terminal*. New York, NY: Mayflower Books, Inc., 1979.

Harris, Roger, "Newark International Airport," *Star-Ledger*, 16 September 1973.

Kukla, Barbara, "Building the Buildings, from the Architect's Standpoint," *Star Ledger*, 16 September 1973.

Lindsey, Robert, "Newark Airport, Area's Oldest at 45, Facing a Rebirth," *The New York Times*, 1 July 1973, 169.

National Park Service. *American Aviation Heritage, Identifying and Evaluating Nationally Significant Properties in U.S. Aviation History*. A National Historic Landmarks Theme Study, revised March 2011.

"Newark Airport At 45 Flies High Again," *Evening Times*, 11 September 1973.

"Newark Airport Busiest," *The New York Times*, 11 February 1933, 2.

"Newark Airport Opens New Wing," *The New York Times*, 7 June 1984, B9.

"Newark Airport Plans," *The New York Times*, 4 August 1927, 12.

O'Leary, John J., "Air Travel Streamlines at Terminal," *Star-Ledger*, 11 September 1973.

"People Express Leases Unfinished Newark Airport Terminal," *The New York Times*, 20 January 1985, 36.

"Port Authority Appoints 3," *The New York Times*, 13 October 1958, 51.

Stowe, Michael and Vincent M. Altamuro, "Airports," *Encyclopedia of New Jersey*, edited by Maxine N. Lurie and Marc Mappen. New Brunswick, NJ: Rutgers University Press, 2004, 12-14.

Szurvoy, Geza. *The American Airport*. St. Paul, MN: MBI Publishing Company, 2003.

"Transport News and Notes," *The New York Times*, 8 October 1967, S25.

"Two Contractors Get Newark Terminal Job," *The New York Times*, 24 April 1972, 38.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

CONTINUATION SHEET

Historic Sites #:

Waggoner, Walter H., "Terminal B Opens at Newark Airport, More Smoothly Than Counterpart Did," *The New York Times*, 25 September 1973, 90.

"Where Airways Will Converge," *The New York Times*, 19 February 1928, 124.

Zukowsky, John, ed. *Building for Air Travel, Architecture and Design for Commercial Aviation*. New York, Munich, and Chicago: Prestel-Verlag, 1996.

Maps / Photographs:

N.J. Picture Collection, Newark Public Library.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport
Surveyor: Nancy L. Zerbe
Organization: ARCH², Inc.

Date: June 2018

BASE SURVEY FORM

Historic Sites #:

Property Name: Anheuser-Busch, Inc.

Street Address: *Street #:* 334 348 *Apartment #:* _____
(Low) *(High)* *(Low)* *(High)*

Prefix: _____ *Street Name:* Carnegie *Suffix:* _____ *Type:* Avenue

County(s): Essex

Zip Code: 07114

Municipality(s): Newark

Block(s): 5090

Local Place Name(s): _____

Lot(s): 44.01

Ownership: Anheuser-Busch, Inc..

USGS Quad(s): Elizabeth, N.J. – N.Y.

Description:

Large brick industrial complex composed of multiple interconnected sections of varying heights. The few sections with fenestration have bands of grouped windows. The façade is dominated by a tall block that has a multi-story Budweiser advertisement painted on the front of the block, "BUDWEISER" letters along the side of the block, and a lighted circular neon sign with an eagle on the roof. At the base of this tower is the entrance to the site with a small brick gatehouse, low brick wall with an iron gate, and a two-story eight-bay freestanding office building accented by a one-story projecting entrance bay with large plate glass windows and a shed roof with projecting arches along the parapet.

Registration and Status Dates:

National Historic
Landmark: _____

SHPO Opinion: _____

National Register: _____

Local Designation: _____

New Jersey Register: _____

Other Designation: _____

Determination of Eligibility: _____

Other Designation Date: _____

Photograph:



Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

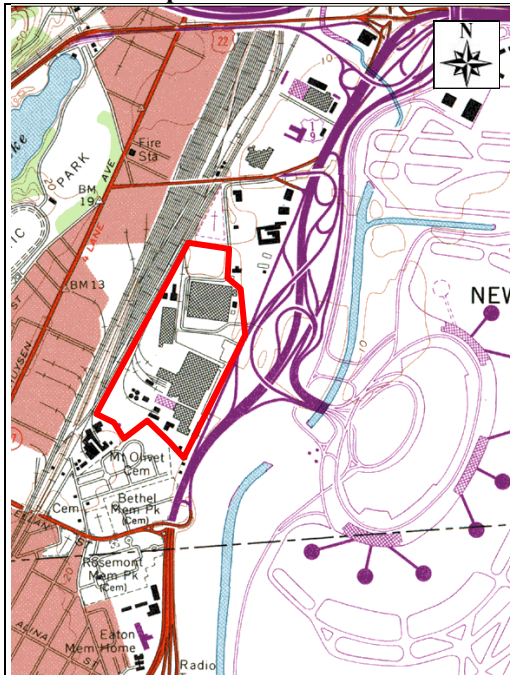
Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

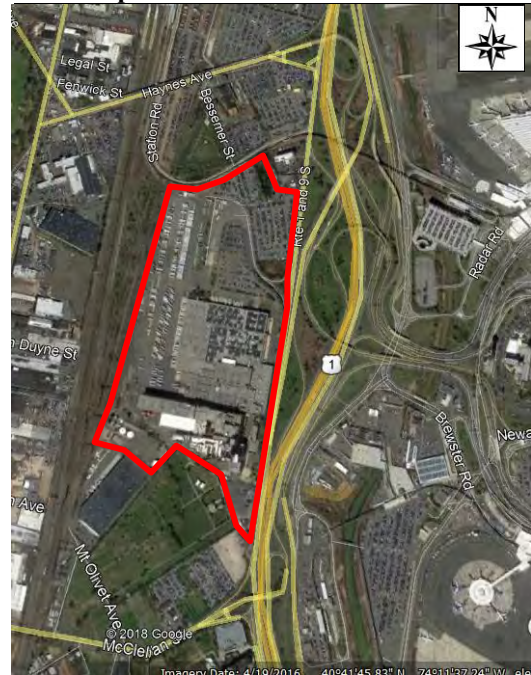
BASE SURVEY FORM

Historic Sites #:

Location Map:



Site Map:



Bibliography/Sources:

See Continuation Sheet

Additional Information:

More Research Needed? ☐ Yes ☒ No

INTENSIVE LEVEL USE ONLY

Attachments Included: ☐ Building ☐ Structure ☐ Object ☐ Bridge
☐ Landscape ☒ Industry

Within Historic District? ☐ Yes ☒ No

Status: ☐ Key-Contributing ☐ Contributing ☐ Non-Contributing

Associated Archaeological Site/Deposit? ☐ Yes ☒ No
(Known or potential Sites – if yes, please describe briefly)

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

Date: June 2018

INDUSTRIAL BUILDING ATTACHMENT

Historic Sites #:

Common Name:	<u>Anheuser-Busch, Inc.</u>		
Historic Name:	<u></u>		
Present Use:	<u>Breweries, Distilleries, & Bottling Plants</u>		
Historic Industry:	<u>Breweries, Distilleries, & Bottling Plants</u>		
Construction Date:	<u>1950</u>	Source:	<u><i>The New York Times; Newark News</i></u>
Alteration Date(s):	<u>1952; ca. 1970</u>	Source:	<u>Michael Baker Jr., Inc. 2001; USGS quad sheets</u>
Designer:	<u>Harley, Ellington & Day, architects</u>	Physical Condition:	<u>Excellent</u>
Builder:	<u>George A. Fuller Company, general contractor</u>	Remaining Historic Fabric:	<u>High</u>
Style:	<u>Modernistic</u>		
	Length:		Stories:
	<u></u>		<u>N/A</u>
	Width:		Bays:
	<u></u>		<u>N/A</u>
Exterior Finish Materials:	<u>Brick</u>		
Foundation Materials:	<u></u>		
Structural System:	<u></u>	Roof System:	<u></u>
Roof Finish Materials:	<u>Unknown</u>		
Equipment/Machinery:	<u></u>		
Transportation Links:	<u></u>		

Exterior Description:

Large brick industrial complex composed of multiple interconnected sections of varying heights. The few sections with fenestration have bands of grouped windows. The façade is dominated by a tall block that has a multi-story Budweiser advertisement painted on the front of the block, "BUDWEISER" letters along the side of the block, and a lighted circular neon sign with an eagle on the roof. At the base of this tower is the entrance to the site with a small brick gatehouse, low brick wall with an iron gate, and a two-story eight-bay freestanding office building accented by a one-story projecting entrance bay with large plate glass windows and a shed roof with projecting arches along the parapet.

Interior Description: N/A

Setting:

This industrial complex is located in a densely developed commercial area situated between Amtrak's Northeast Corridor and the Newark Liberty International Airport.

Survey Name:	<u>Replacement of AirTrain at Newark Liberty International Airport</u>	Date:	<u>June 2018</u>
Surveyor:	<u>Nancy L. Zerbe</u>		
Organization:	<u>ARCH², Inc.</u>		

ELIGIBILITY WORKSHEET

Historic Sites #:

History:

On May 17, 1946, Newark Mayor Vincent J. Murphy announced that the Anheuser-Busch Corporation was planning to spend \$20,000,000 to build a new brewery on 50 acres along Route 25. The property that the company was purchasing from the United States Steel Corporation was described as "The land borders on the Waverly Yards of the Pennsylvania Railroad, between Mount Olivet and City cemeteries." ("\$20,000,000 Beer Plant," May 17, 1946, 13). Construction on the facility was delayed for several reasons, including a 1946 federal government restriction on construction (\$75,000,000 In Work Halted by Brewers," May 3, 1946, 32) and a 1949 concern about Newark Airport's potential future expansion. The Anheuser-Busch Corporation only proceeded with their plans after negotiations between the company, City of Newark, and Port Authority resulted in reassurances to the company that the airport's future expansion plans would not interfere with the brewery ("Anheuser-Busch Building in East," September 20, 1949, 43).

The Newark brewery was expected to produce 1,250,000 barrels per year, which would be roughly one-quarter of the production of the St. Louis facility. In addition, the Newark facility would also produce "pharmaceutical yeasts, bakers' yeast and other baking ingredients; industrial and food starches, dextrines, corn syrups and livestock and poultry feeds" (Ibid.).

(see Continuation Sheet)

Statement of Significance:

The Anheuser-Busch facility does not meet the Criteria for Inclusion in the National Register of Historic Places, for either architectural or historic significance.

Eligibility for New Jersey and

National Registers:

☐ Yes

☒ No

National

Register Criteria:

☐ A

☐ B

☐ C

☐ D

Level of Significance:

☐ Local

☐ State

☐ National

Justification of Eligibility/Ineligibility:

Breweries were a significant part of Newark's industrial history, primarily due to the mid-nineteenth century immigration of Germans settling in Newark. In 1895, Newark was one of nine American cities with annual sales of over one million barrels of beer. The cities, listed in descending order in terms of volume of sales, were: New York, Chicago, Brooklyn, Milwaukee, St. Louis, Philadelphia, Newark, Cincinnati, and Boston (Pabst, 1895, 415). At that time, the breweries in Newark were primarily smaller family-run industries. In contrast, Anheuser-Busch is a large national corporation based in St. Louis, Missouri. Of the approximately 50 breweries that operated in Newark, Anheuser-Busch's arrival in 1950 makes it the last brewery to open in Newark (Michael Baker, Jr., 2001, 2-34). The Newark plant was one of several Anheuser-Busch facilities, with the St. Louis facility having a much larger volume of production. Architecturally, the complex is not distinctive nor it is the work of a master.

For Historic Districts Only:

Property Count: Key Contributing: _____ Contributing: _____ Non Contributing: _____

For Individual Properties Only:

List the completed attachments related to the property's significance:

N/A

Narrative Boundary Description:

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

CONTINUATION SHEET

Historic Sites #:

History (continued):

The original complex, which was one-fifth the size and capacity of the St. Louis facility, consisted of seven buildings ("New Plant Started for Anheuser-Busch," March 3, 1950, 56) designed by Harley, Ellington & Day, architects, and constructed by George A. Fuller Company, general contractor ("Plans New Brewery in Jersey," March 14, 1950, 41). Subsequent construction appears to have both enlarged and connected the original buildings. In 1952, the brewery's capacity enlarged by 25% (Michael Baker Jr., Inc., 2001, 2-34). The 1967 USGS quad sheet, updated through 1981, depicts the large complex of buildings with a small rear addition added between 1967 and 1981.

A 1957 article in *The New York Times*, entitled "The Vanishing Brewery," discussed the growing competition in the industry and how small breweries were having a hard time competing with the large national companies such as Anheuser-Busch. Anheuser-Busch was described as having three facilities with large production capabilities: the main plant in St. Louis with 60 buildings and producing 6,000,000 barrels per year; Newark producing 1,800,000 barrels per year; and Los Angeles producing 1,000,000 barrels per year (Freeman, August 1, 1957, 43.) In 1968, *The New York Times* reported that the large national beer companies, including Anheuser-Busch, Joseph Schlitz Brewing Company, and Pabst Brewing Company, felt "Stymied by the Government in their efforts to expand through the acquisition of smaller breweries." As a result, these companies were actively expanding, including Anheuser-Busch's \$10.35 million addition to its St. Louis facility, and new plants in Merrimack, New Hampshire; Columbus, Ohio; Jacksonville, Florida; and Houston, Texas. In 1967, Anheuser-Busch was the largest beer producer with an annual production of 15.5 million barrels (Nagle, January 28, 1968, F14).

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

CONTINUATION SHEET

Historic Sites #:



1992 Photograph of the newly installed "Budweiser" sign.
Source: N.J. Picture Collection, Newark Public Library



December 15, 1988 Photograph of the renovated neon sign.
Source: N.J. Picture Collection, Newark Public Library

Survey Name: Replacement of AirTrain at Newark Liberty International Airport
Surveyor: Nancy L. Zerbe
Organization: ARCH², Inc.

Date: June 2018

CONTINUATION SHEET

Historic Sites #:

Bibliography/Sources:

- "\$20,000,000 Beer Plant," *The New York Times*, 17 May 1946, 13.
- "\$75,000,000 In Work Halted by Brewers," *The New York Times*, 3 May 1946, 32.
- "Airport Compact Nears," *The New York Times*, 11 August 1949, 2.
- "Anheuser-Busch Building in East," *The New York Times*, 20 September 1949, 43.
- "Brewery Is Re-Assured," *The New York Times*, 2 August 1949, 26.
- "Brewery Selects Its Site," 16 May 1946 ("Newark Breweries" clipping file, Newark Public Library).
- "Driscoll's Aid Sought," *The New York Times*, 9 August 1949, 32.
- Freeman, William M., "The Vanishing Brewery," *The New York Times*, 1 August 1957, 43.
- James, Richard A. *The Brewing Industry in Northern New Jersey, A History in Context*, June 1996.
- Michael Baker Jr., Inc. *Phase I Archaeological and Phase I/II Historic Architecture Survey of the Haynes Avenue at Route 1 & 9 Project Area, City of Newark, Essex County, New Jersey*, January 2001.
- Nagle, James J., "Big Three Expanding by Building Own Breweries," *The New York Times*, 28 January 1968, F14.
- "Newark-Buildings-Industrial-Anheuser-Busch." N. J. Picture Collection, on file at Newark Library.
- "New Plant Started for Anheuser-Busch," *The New York Times*, 31 March 1950, 56.
- Pabst, Fred, "The Brewing Industry," *One Hundred Years of American Commerce, Vol. II.*, edited by Chauncey M. Depew. New York: The De Vinne Press, 1895, 413-417.
- "Plans New Brewery in Jersey," *The New York Times*, 14 March 1950, 41.
- "The Vanishing Brewery," *The New York Times*, 1 August 1957, 43.
- "Way Clear for Brewery," 29 August 1949 ("Newark Breweries" clipping file, Newark Public Library).
- "Where Anheuser-Busch Will Build \$25,000,000 Brewery," 19 October 1949 ("Newark Breweries" clipping file, Newark Public Library).

Maps / Photographs:

N.J. Picture Collection, Newark Public Library.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

BASE SURVEY FORM

Historic Sites #:

Property Name: New Jersey Galvanizing and Tinning Works, Inc.

Street Address: *Street #:* 139 155 *Apartment #:* _____
(Low) *(High)* *(Low)* *(High)*

Prefix: _____ *Street Name:* Haynes *Suffix:* _____ *Type:* Avenue

County(s): Essex **Zip Code:** 07114

Municipality(s): Newark **Block(s):** 5090

Local Place Name(s): _____ **Lot(s):** 6

Ownership: New Jersey Galvanizing and
Tinning Works, Inc.

**USGS
Quad(s):** Elizabeth, N.J. – N.Y.

Description:

Large one-story masonry industrial building with a gable asphalt roof, vertical metal siding, and multiple side additions, primarily with shed roofs. The rear (south) elevation consists of a one-story gable roof extension with a large overhanging roof and vertical metal siding. A small shed roof one-bay industrial building is located to the west of the large building.

Registration and Status Dates:

National Historic
Landmark: _____

SHPO Opinion: _____

National Register: _____

Local Designation: _____

New Jersey Register: _____

Other Designation: _____

Determination of Eligibility: _____

Other Designation Date: _____

Photograph:



Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

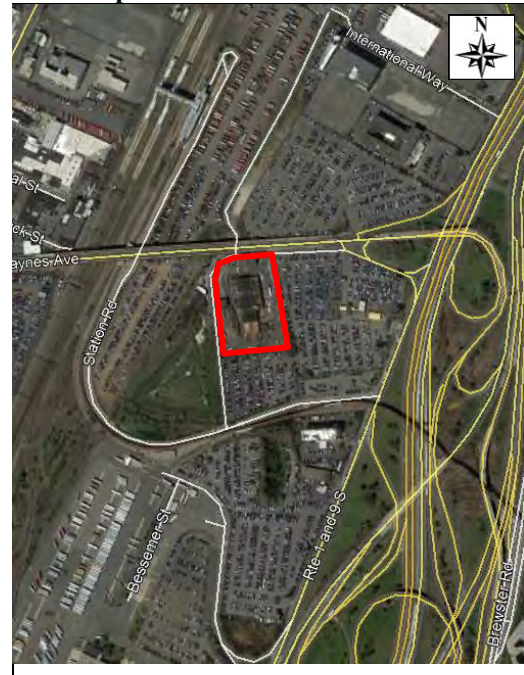
BASE SURVEY FORM

Historic Sites #:

Location Map:



Site Map:



Bibliography/Sources:

Aerial photographs, 1951 and 1954.

"Apartment Building Bought in Irvington," *The New York Times*, 13 February 1954, 24.

Michael Baker Jr., Inc. *Phase I Archaeological and Phase I/II Historic Architecture Survey of the Haynes Avenue at Route 1 & 9 Project Area, City of Newark, Essex County, New Jersey*. January 2001.

Newark City Directories, 1947, 1951, 1955, and 1957-1958. Newark, NJ: The Price & Lee Company.

New Jersey Industrial Directories, 1962 and 1966.

Sanborn Fire Insurance Map of Newark, New Jersey, 1966.

USGS quad sheet, 1967.

Additional Information:

More Research Needed? ☐ Yes ☒ No

INTENSIVE LEVEL USE ONLY

Attachments Included: ☒ Building ☐ Structure ☐ Object ☐ Bridge
☐ Landscape ☐ Industry

Within Historic District? ☐ Yes ☒ No

Status: ☐ Key-Contributing ☐ Contributing ☐ Non-Contributing

Associated Archaeological Site/Deposit? ☐ Yes ☒ No
(Known or potential Sites – if yes, please describe briefly)

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

INDUSTRIAL BUILDING ATTACHMENT

Historic Sites #:

Common Name: New Jersey Galvanizing and Tinning Works, Inc.

Historic Name: _____

Present Use: Industrial

Historic Industry: Industrial

Construction Date: Ca. 1954

Source: Historic maps; aerial photographs

Alteration Date(s): _____

Source: _____

Designer: _____

Physical Condition: Fair

Builder: _____

Remaining Historic Fabric: Medium

Style: N/A

Length: _____

Stories: N/A

Width: _____

Bays: N/A

Exterior Finish Materials: Metal Siding

Foundation Materials: _____

Structural System: _____

Roof System: _____

Roof Finish Materials: N/A

Equipment/Machinery: _____

Transportation Links: _____

Exterior Description:

Large one-story masonry industrial building with a gable asphalt roof, vertical metal siding, and multiple side additions, primarily with shed roofs. The rear (south) elevation consists of a one-story gable roof extension with a large overhanging roof and vertical metal siding. A small shed roof one-bay industrial building is located to the west of the large building.

Interior Description: N/A

Setting:

The building is located in an industrial area in close proximity to the Haynes Avenue Bridge and the Northeast Corridor.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

ELIGIBILITY WORKSHEET

Historic Sites #:

History:

Early twentieth century maps, including the 1908 and 1931 Sanborn maps, show the Waverly Paper Box Board Company on Lot 6, where this building is located. By 1938, this company had closed; by 1950, the site had been cleared (Michael Baker Jr., Inc. 2001, 2-27).

In the early 1950s the New Jersey Galvanizing & Tinning Works, Inc. moved from its location at the "ft. Pacific," where it is listed in the 1947 and 1951 *Newark City Directories*. By 1954, the company owned property on Bessemer Street, as indicated by the fact that in February of that year, the company provided a lease with an option to purchase of 4 acres on Bessemer Street to Watt Brothers of Pawtucket, Rhode Island, who will improve the land with a trucking terminal ("Apartment Building Bought in Irvington," February 13, 1954, 24). The 1955 *Newark City Directory* and the 1962 and 1966 *New Jersey Industrial Directories* list New Jersey Galvanizing and Tinning Works, Inc. at its current location of 139 Haynes Avenue. The large industrial building currently on the site does not appear on 1951 and 1954 aerial photographs, but is depicted on both the 1966 Sanborn map and the 1967 USGS quad sheet.

Statement of Significance:

This mid-twentieth century industrial building is not architecturally noteworthy and lacks historic significance.

Eligibility for New Jersey and

National Registers:

☐ Yes

☒ No

National

Register Criteria:

☐ A

☐ B

☐ C

☐ D

Level of Significance:

☐ Local

☐ State

☐ National

Justification of Eligibility/Ineligibility:

The New Jersey Galvanizing & Tinning Works, Inc. lacks architectural or historic significance and does not meet the criteria for inclusion in the National Register of Historic Places.

For Historic Districts Only:

Property Count: Key Contributing: _____ Contributing: _____ Non Contributing: _____

For Individual Properties Only:

List the completed attachments related to the property's significance:

N/A

Narrative Boundary Description:

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

CONTINUATION SHEET

Historic Sites #:



View looking northwest at the rear of the main building.



View looking south at a small shed adjacent to the main building.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport
Surveyor: Nancy L. Zerbe
Organization: ARCH², Inc.

Date: June 2018

BASE SURVEY FORM

Historic Sites #:

Property Name: Kingsland Drum and Barrel, Inc.

Street Address: *Street #:* 133 135 *Apartment #:* _____
(Low) (High) (Low) (High)

Prefix: _____ *Street Name:* Haynes *Suffix:* _____ *Type:* Avenue

County(s): Essex **Zip Code:** 07114

Municipality(s): Newark **Block(s):** 5090

Local Place Name(s): _____ **Lot(s):** 2

Ownership: New Jersey Department of
Transportation

**USGS
Quad(s):** Elizabeth, N.J. – N.Y.

Description:

One-story abandoned rectangular concrete block building that runs northeast-southwest parallel to the Northeast Corridor. The façade consists of four bays: two large metal-framed industrial windows flanking a central vehicular opening on the east side of the façade, and an open bay with two large industrial windows (one on the façade and one on a side wall) that are now covered in vertical siding. The entire façade is covered with a shed roof with corrugated roofing material and simple posts. The side elevations are partially covered with stucco and are capped with tile along the eaves. The window and door openings, many of which are blocked in, have brick lintels and sills. The east side elevation has a small one-story shed roof addition at the rear. The building is abandoned, open to the elements, and in poor condition.

Registration and Status Dates:

National Historic
Landmark: _____

SHPO Opinion: _____

National Register: _____

Local Designation: _____

New Jersey Register: _____

Other Designation: _____

Determination of Eligibility: _____

Other Designation Date: _____

Photograph:



Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

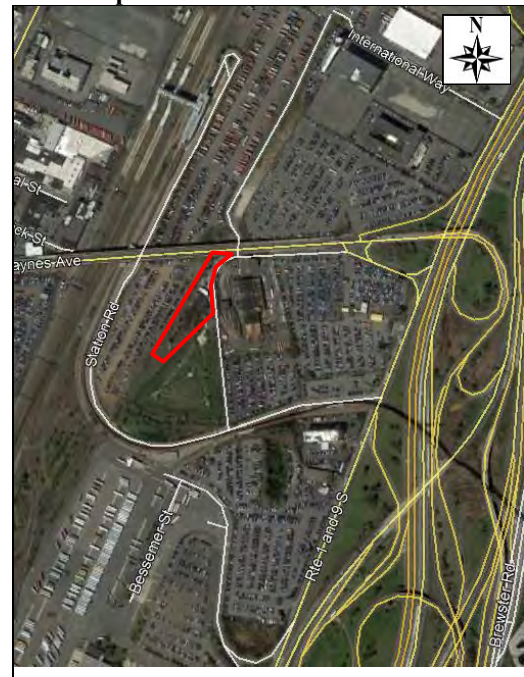
BASE SURVEY FORM

Historic Sites #:

Location Map:



Site Map:



Bibliography/Sources:

Herszenhorn, David M. "Speaking Out for the Indigent Dead: A Woman's Search for Her Father's Remains Is Forcing Newark to Restore a Potter's Field," *The New York Times*, 19 October 1998, B1.

Michael Baker Jr., Inc. *Phase I Archaeological and Phase I/II Historic Architecture Survey of the Haynes Avenue at Route 1 & 9 Project Area, City of Newark, Essex County, New Jersey*, January 2001.

Newark City Directories, 1930, 1935, 1940, 1947, 1951, and 1957-1958. Newark, NJ: The Price & Lee Company.

"Property in Block 5090." Available online at <<https://www.stateinfoservices.com/property/0714/5090/2/>>.

Sanborn Fire Insurance Maps of Newark, New Jersey, 1931 and 1950.

Tri-State Transportation Committee. Aerial photograph, April 23, 1961. Philadelphia, PA: Aero Service Corporation, 1962, N. J. Picture Collection, Newark Public Library.

Additional Information:

More Research Needed? ☐ Yes ☒ No

INTENSIVE LEVEL USE ONLY

Attachments Included: ☒ Building ☐ Structure ☐ Object ☐ Bridge
☐ Landscape ☐ Industry

Within Historic District? ☐ Yes ☐ No

Status: ☐ Key-Contributing ☐ Contributing ☐ Non-Contributing

Associated Archaeological Site/Deposit? ☐ Yes ☒ No
(Known or potential Sites – if yes, please describe briefly)

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

INDUSTRIAL BUILDING ATTACHMENT

Historic Sites #:

Common Name: Kingsland Drum and Barrel, Inc.

Historic Name: _____

Present Use: Industrial

Historic Industry: Industrial

Construction Date: Ca. 1960

Source: Historic maps; aerial photographs

Alteration Date(s): _____

Source: _____

Designer: _____

Physical Condition: Poor

Builder: _____

Remaining Historic Fabric: Low

Style: N/A

Length: _____

Stories: N/A

Width: _____

Bays: N/A

Exterior Finish Materials: Concrete

Foundation Materials: _____

Structural System: _____

Roof System: _____

Roof Finish Materials: N/A

Equipment/Machinery: _____

Transportation Links: _____

Exterior Description:

One-story abandoned rectangular concrete block building that runs northeast-southwest parallel to the Northeast Corridor. The façade consists of four bays: two large metal-framed industrial windows flanking a central vehicular opening on the east side of the façade, and an open bay with two large industrial windows (one on the façade and one on a side wall) that are now covered in vertical siding. The entire façade is covered with a shed roof with corrugated roofing material and simple posts. The side elevations are partially covered with stucco and are capped with tile along the eaves. The window and door openings, many of which are blocked in, have brick lintels and sills. The east side elevation has a small one-story shed roof addition at the rear. The building is abandoned, open to the elements, and in poor condition.

Interior Description: N/A

Setting:

This building is located in an industrial area of the City of Newark in close proximity to the Northeast Corridor.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

ELIGIBILITY WORKSHEET

Historic Sites #:

History:

According to the 1931 and 1950 Sanborn maps, Lot 2, the property on which this building is located, was the site of the American Paving Corporation, with an office at the front of the property, an "asphalt plant" in the middle, and a few buildings along a siding of the Pennsylvania Railroad. None of these buildings appears to match the footprint of the current building. According to the *Newark City Directories*, the American Paving Corporation continued to be located on Bessemer Street through the mid-1950s.

The current building is first clearly depicted on a 1961 aerial photograph. On subsequent aerial photographs from the 1960s through 1995, it appears that Lot 2 where the building is located was utilized in conjunction with Lot 5, the main City Cemetery lot that is shown on the aerials as being used for storage of either equipment or garbage.

According to research conducted in conjunction with a 1998 dispute over the City of Newark's treatment of its pauper's cemetery, in 1975 the City leased portions of Lot 5 to Kingsland Drum and Barrel Company. In 1994, the City sold Lot 2, including the building, to Kingsland. This company, with its primary facility on Miller Street in Newark, appears to have used the Bessemer Street site as a secondary site (Herszenhorn, October 19, 1998, B1).

The building on the site was constructed ca. 1960, most likely around the time that Kingsland Drum and Barrel Company took over use of the site from the American Paving Corporation. In 1998, the company was described as no longer being in business (Ibid.).

Statement of Significance:

The concrete block industrial building lacks both architectural significance and integrity. It also lacks historic significance due to the fact that it was utilized during the late twentieth century as a secondary facility for a company with no distinguishing significance.

Eligibility for New Jersey and

National Registers:

☐ Yes

☒ No

National

Register Criteria:

☐ A

☐ B

☐ C

☐ D

Level of Significance:

☐ Local

☐ State

☐ National

Justification of Eligibility/Ineligibility:

This mid-twentieth century industrial building, which has been greatly altered, lacks either historic or architectural significance.

For Historic Districts Only:

Property Count:

Key Contributing: _____

Contributing: _____

Non Contributing: _____

For Individual Properties Only:

List the completed attachments related to the property's significance:

N/A

Narrative Boundary Description:

Survey Name: Replacement of AirTrain at Newark Liberty International Airport

Date: June 2018

Surveyor: Nancy L. Zerbe

Organization: ARCH², Inc.

CONTINUATION SHEET

Historic Sites #:



View looking southwest at the side elevation.



View looking west at the side elevation.

Survey Name: Replacement of AirTrain at Newark Liberty International Airport
Surveyor: Nancy L. Zerbe
Organization: ARCH², Inc.

Date: June 2018

Appendix F

Appendix F: Environmental Radius Report, April 2018, NETROnline

NEWARK AIRPORT

Monday, April 02, 2018

Environmental Radius Report

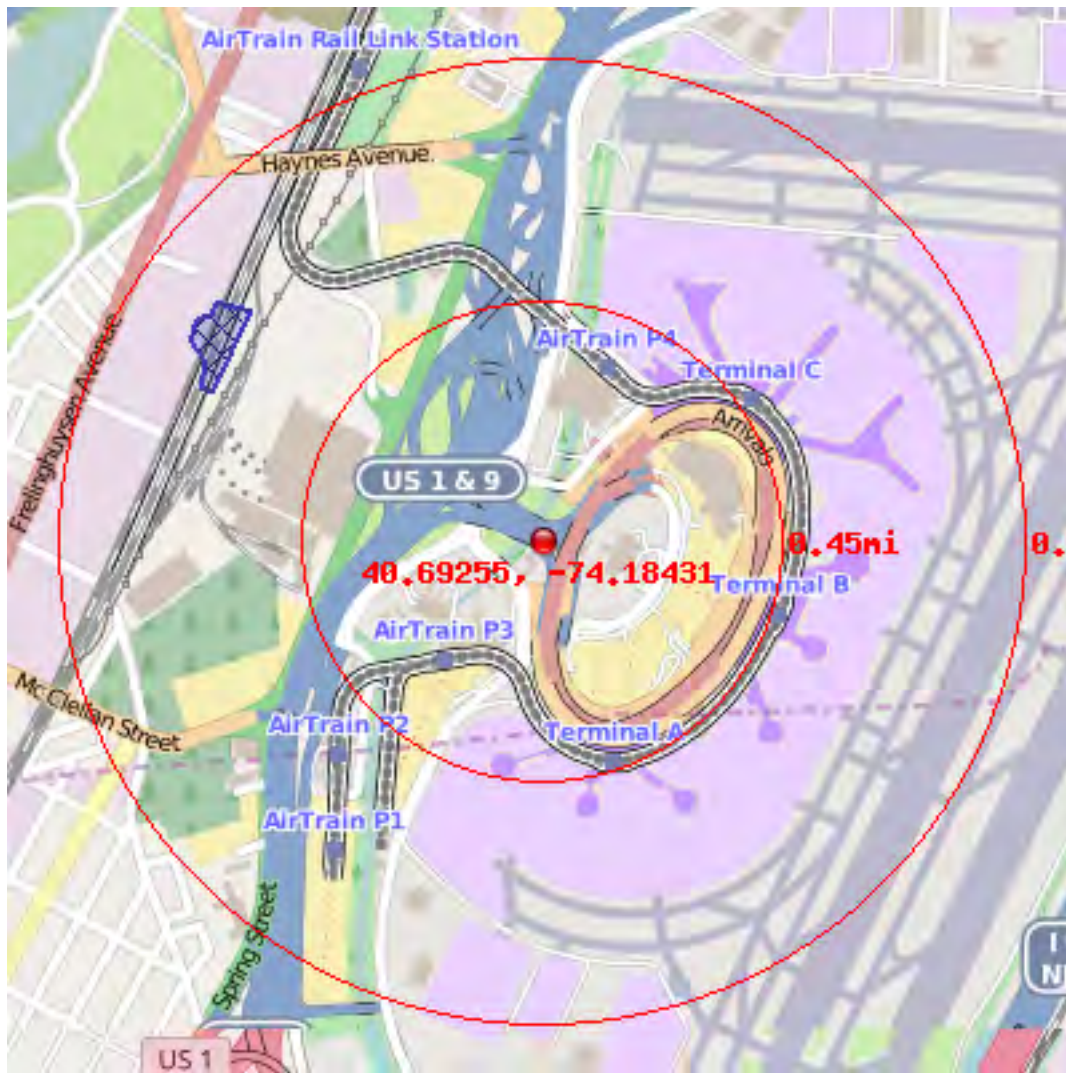


2055 E. Rio Salado Pkwy
Tempe, AZ 85381
480-967-6752

Summary

	< 1/4	1/4 - 1/2	1/2 - 1
National Priorities List (NPL)			1
CERCLIS List			
CERCLIS NFRAP			
RCRA CORRACTS Facilities			4
RCRA non-CORRACTS TSD Facilities			
Federal Institutional Control / Engineering Control Registry			
Emergency Response Notification System (ERNS)	15		1
US Toxic Release Inventory			8
US RCRA Generators (CESQG, SQG, LQG)	1	2	14
US ACRES (Brownfields)			
US NPDES		2	6
US Air Facility System (AIRS / AFS)	1	1	14
NJ Environmental Management System	7	21	185
NJ Groundwater Contamination Area (CEA)	2	2	6
NJ Groundwater Contamination Area (CKE)			
NJ Chromate Waste Sites			
NJ Activity and Use Limitations			2
NJ Known Contaminated Sites	4	2	27
NJ Underground Storage Tanks			1
NJ Closed Landfills			

National Priorities List (NPL)



This database returned 1 results for your area.

The Superfund Program, administered under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) is an EPA Program to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. The NPL (National Priorities List) is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide the EPA in determining which sites warrant further investigation. The boundaries of an NPL site are not tied to the boundaries of the property on which a facility is located. The release may be contained within a single property's boundaries or may extend across property boundaries onto other properties. The boundaries can, and often do change as further information on the extent and degree of contamination is obtained.

National Priorities List (NPL)

Location	40.69848, -74.19824
Distance to site boundary	3540 ft / 0.67 mi

National Priorities List (NPL)

Site Summary

Federal Register Notice: September 25, 1991 Conditions at Proposal (May 9, 1991): White Chemical Corp. occupies a 4.4-acre site at 660 Frelinghuysen Avenue in a densely populated residential/industrial section of Newark, Essex County, New Jersey. Acid chlorides and flame-retardant chemicals were manufactured on property owned by AZS Corp. from January 1984 to July 1990. Prior to May 1983, Lancaster Chemical Corp., a division of AZS, manufactured chemicals on the property. The site originally consisted of three major buildings, including laboratories, storerooms, and grounds. It is bounded by an industrial center to the north-northeast, a feather company to the west, a sportswear manufacturer to the south-southwest, and a Conrail line to the east-southeast. The New Jersey Department of Environmental Protection (NJDEP) inspected the facility several times in 1989 and found numerous violations of the Resource Conservation and Recovery Act. On March 15, 1990, NJDEP served White Chemical and AZS an Administrative Order and Notice of Civil Administrative Penalty Assessment for the noted violations. On May 8, 1990, NJDEP ordered White Chemical to secure the site and to pay for drum stabilization and removal. After the company failed to comply, NJDEP began a removal operation on May 15, 1990. NJDEP's inventory found (among other things) approximately 9,000 drums improperly stored on-site. According to the NJDEP inventory and the site owner, 915 contained scrubbing solution (water with xylene or trichloroethylene), 608 contained waste filter cake, 5,583 contained wastes that may be hazardous, 109 contained substances not classified, 1,673 were claimed to be empty, and 175 were considered to be products by White Chemical. NJDEP observed deteriorating drums leaking into the soil or eroding the pallets on which they were placed. NJDEP also observed spills of phosphoric acid, sulfuric acid, ethylene dichloride, and xylene. Water-reactive materials were stored outside where rain or humidity provided conditions for the materials to be released, and incompatible materials were stored next to each other. There were also 126 above ground tanks of a variety of sizes. Thousands of unsegregated lab-pack-size materials in various stages of deterioration are stored within the buildings on shelves that are also deteriorating. By August 1990, NJDEP had removed approximately 1,000 drums. However, cleanup was halted when NJDEP ran out of funds (have expended approximately \$825,000). The State then called EPA for assistance in completing stabilization and removal actions at the site. Subsequently, EPA overpacked fuming drums of phosphorus tribromide for future disposal. On September 28, 1990, EPA issued a Unilateral Administrative Order under CERCLA Section 104(e)(3) requiring White Chemical to stop all business activities and vacate the facility. The most serious threats to public health and the environment would result from a release to air of substances in unstable drums and other containers, and by fire and explosion and the associated release of contaminants to air. Approximately 12,000 people live and work within 1/4 mile of the site, 290,000 persons live within 3 miles of the site, and an unknown number of people work within this 3-mile radius. Given prevailing winds, a fire and explosion at White Chemical could seriously impact Newark International Airport, less than 1 mile to the east, the Conrail line at the site's eastern boundary (the major eastern corridor for Amtrak and Conrail), and U.S. Routes 1 and 9 (between the rail line and the airport). EPA removal staff continues to stabilize and secure the site. The removal action may take up to 18 months. In addition, EPA continues to assess site conditions and the quantities and types of materials present. On November 21, 1990, the Agency for Toxic Substances and Disease Registry (ATSDR) of the U.S. Public Health Service issued an advisory warning that the site poses a significant threat to public health because of possible releases of hazardous substances to the air. Under Section 300.425(c)(3) of the National Contingency Plan, the Federal regulation by which CERCLA is implemented, a site can be placed on the NPL if (1) ATSDR has issued a public health advisory recommending that people be removed from the site, (2) EPA determines that the site poses a significant threat to public health, and (3) EPA anticipates that it will be more cost-effective to use its remedial authority (available only at NPL sites) than its emergency removal authority to respond to the site.

Primary Name

WHITE CHEMICAL CORP

Address

660 FRELINGHUYSEN AVENUE

National Priorities List (NPL)

City	NEWARK
State	NJ
EPA Identifier	110001530987
CERCLIS Identifier	NJD980755623
NPL Status	final

CERCLIS List

This database returned no results for your area.

The United States Environmental Protection Agency (EPA) investigates known or suspected uncontrolled or abandoned hazardous substance facilities under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). EPA maintains a comprehensive list of these facilities in a database known as the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS). These sites have either been investigated or are currently under investigation by the EPA for release or threatened release of hazardous substances. Once a site is placed in CERCLIS, it may be subjected to several levels of review and evaluation and ultimately placed on the National Priority List (NPL).

CERCLIS sites designated as "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration.

CERCLIS NFRAP

This database returned no results for your area.

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" NFRAP have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the site being placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed these NFRAP sites from CERCLIS to lift unintended barriers to the redevelopment of these properties. This policy change is part of EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens promote economic redevelopment of unproductive urban sites.

RCRA CORRACTS Facilities



This database returned 4 results for your area.

The United States Environmental Protection Agency (EPA) regulates hazardous waste under the Resource Conservation and Recovery Act (RCRA). The EPA maintains the Corrective Action Report (CORRACTS) database of Resource Conservation and Recovery Act (RCRA) facilities that are undergoing "corrective action." A "corrective action order" is issued pursuant to RCRA Section 3008(h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predated RCRA.

RCRA CORRACTS Facilities

Location 40.69153, -74.19643
Distance to site 3375 ft / 0.64 mi W
Site Name PENICK CORP
EPA Facility Website http://oaspub.epa.gov/enviro/fac_gateway.main?p_regid=110000872280
Facility Registry ID 110000872280
Address 158 MOUNT OLIVE AVENUE
City NEWARK
State NJ
Zip 07114

Location 40.704, -74.19229
Distance to site 4725 ft / 0.89 mi NW
Site Name B&L OIL CO
EPA Facility Website http://oaspub.epa.gov/enviro/fac_gateway.main?p_regid=110014992437
Facility Registry ID 110014992437
Address 472 FRELINGHUYSEN AVENUE
City NEWARK
State NJ
Zip 07114

Location 40.70367, -74.19308
Distance to site 4726 ft / 0.9 mi NW
Site Name ZINSSER & CO INC
EPA Facility Website http://oaspub.epa.gov/enviro/fac_gateway.main?p_regid=110000871833
Facility Registry ID 110000871833
Address 480 FRELINGHUYSEN AVENUE
City NEWARK
State NJ
Zip 07114

Location 40.6881, -74.20164
Distance to site 5062 ft / 0.96 mi W
Site Name ORBIS PRODUCTS CORP
EPA Facility Website http://oaspub.epa.gov/enviro/fac_gateway.main?p_regid=110000615834
Facility Registry ID 110000615834
Address 55 VIRGINIA STREET
City NEWARK
State NJ
Zip 071142104

RCRA non-CORRACTS TSD Facilities

This database returned no results for your area.

The United States Environmental Protection Agency (EPA) regulates hazardous waste under the Resource Conservation and Recovery Act (RCRA). The EPA's RCRA Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities that report generation, storage, transportation, treatment, or disposal of hazardous waste. RCRA Permitted Treatment, Storage, Disposal Facilities (RCRA-TSD) are facilities which treat, store and/or dispose of hazardous waste.

Federal Institutional Control / Engineering Control Registry

This database returned no results for your area.

Federal Institutional Control / Engineering Control Registry

Emergency Response Notification System (ERNS)



This database returned 16 results for your area.

The Emergency Response Notification System (ERNS) is a national computer database used to store information on unauthorized releases of oil and hazardous substances. The program is a cooperative effort of the Environmental Protection Agency, the Department of Transportation Research and Special Program Administration's John Volpe National Transportation System Center and the National Response Center. There are primarily five Federal statutes that require release reporting: the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) section 103; the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304; the Clean Water Act of 1972 (CWA) section 311(b)(3); and the Hazardous Material Transportation Act of 1974 (HMTA) section 1808(b).

Emergency Response Notification System (ERNS)

Location	40.69288, -74.18545
Distance to site	336 ft / 0.06 mi W
Incident	CALLER STATES THAT AN AIRCRAFT HYDRANT CART WAS LEAKING FUEL THAT WENT INTO A PIT. THE PIT OVERFLOWED WITH FUEL GOING INTO A CATCH BASIN.
Incident Date	8/18/2011 9:30
Incident location	GATE 125 AT CONTINENTAL AIRLINE
Year Reported	2011
Address	NEWARK AIRPORT
City	NEWARK
State	NJ
County	ESSEX

Location	40.69288, -74.18545
Distance to site	336 ft / 0.06 mi W
Incident	CALLER IS REPORTING THAT A RAMP AGENT WAS LOADING BAGGAGE AND NOTICED ONE OF THE BAGS WAS HOT TO THE TOUCH. HE NOTICED THERE WAS A HOLE MELTED IN THE BOTTOM OF THE CASE AND WHEN HE MOVED THE BAG FLAMES STARTED COMING FROM THE HOLE. THIS WAS DUE TO A LITHIUM BATTERY FROM A CHILDS TOY THAT HAD MELTED AND IGNITED.
Incident Date	5/5/2012 18:30
Incident location	GATE 97
Year Reported	2012
Address	NEWARK INTERNATIONAL AIRPORT
City	NEWARK
State	NJ
County	ESSEX

Location	40.69288, -74.18545
Distance to site	336 ft / 0.06 mi W
Incident	THE CALLER STATED THAT A DRIVER PULLED AWAY WHILE THE NOZZLE WAS STILL CONNECTED TO THE VEHICLE. THE FUEL ENTERED A DRAIN, BUT IT WAS UNKNOWN IF IT LEADS TO A WATERWAY.
Incident Date	11/17/2010 19:45
Incident location	CONTINETAL TERMINAL C GAS STATION
Year Reported	2010
Address	NEWARK AIRPORT
City	NEWARK
State	NJ
County	ESSEX

Emergency Response Notification System (ERNS)

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER REPORTED AN A/C UNIT IS LEAKING DIESEL FUEL ONTO THE GROUND. SOME OF IT GOT INTO A CATCH BASIN THAT IS NOW BEING SUCKED OUT.
Incident Date 8/8/2011 10:15
Incident location GATE C123
Year Reported 2011
Address NORTH LIBERTY INTERNATIONAL AIRPORT.
City NEWARK
State NJ
County ESSEX

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER IS REPORTING A SPILL OF JET A FUEL ONTO THE GROUND AND INTO THE STORM DRAIN.
Incident Date 12/3/2013 16:50
Year Reported 2013
Address NEWARK AIR PORT
State NJ
County ESSEX

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER IS REPORTING A RELEASE OF JET A FUEL ONTO THE TARMAC AND INTO A STORM DRAIN FROM AN AIRCRAFT DUE TO A VTO FAILURE.
Incident Date 12/10/2014 17:10
Year Reported 2014
Address NEWARK LIBERTY INTERNATIONAL AIRPORT
City ELIZABETH
State NJ
County UNION
Zip Code 07201

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER STATED DUE TO OPERATOR ERROR THERE WAS SPILL OF JET FUEL WHILE TRANSFERRING FUEL FROM THE NUMBER ONE TANK TO THE NUMBER TWO TANK OF AN AIRCRAFT.
Incident Date 7/15/2012 3:00
Year Reported 2012
Address NEWARK AIRPORT
City NEWARK
State NJ
County ESSEX

Emergency Response Notification System (ERNS)

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER REPORTED A SPILL OF MATERIALS DUE TO A MECHANICAL FAILURE ON AN AIRCRAFT.
Incident Date 4/25/2013 3:15
Incident location FED EX RAMP
Year Reported 2013
Address NEWARK LIBERTY INTERNATIONAL AIRPORT
City ELIZABETH
State NJ
County ESSEX
Zip Code 07201

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER STATED DUE TO A VCL FAILURE ON THE OUTER RIGHT WING OF AN AIRCRAFT THERE WAS A SPILL OF JET-A.
Incident Date 10/11/2012 14:30
Year Reported 2012
Address NEWARK INTERNATIONAL AIRPORT
City NEWARK
State NJ
County ESSEX

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER STATED A SPILL OF MATERIALS WAS DISCOVERED ON THE RAMP AT THE NEWARK AIRPORT FROM UNKNOWN SOURCES.
Incident Date 7/15/2012 3:25
Year Reported 2012
Address NEWARK AIRPORT
City NEWARK
State NJ
County ESSEX

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER STATED DUE TO HEAVY RAINS IN THE AREA THERE WAS A SPILL OF JET FUEL FROM A HYDRANT PIT INTO A STORM DRAIN AT AN AIRPORT.
Incident Date 8/28/2009 9:20
Year Reported 2009
Address NORTH LIBERTY INTERNATIONAL AIRPORT
City NEWARK
State NJ
County ESSEX

Emergency Response Notification System (ERNS)

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident CALLER IS REPORTING A RELEASE OF JET-A FROM A FUELING CART, THE CAUSE WAS DUE TO A DRIVER FUELING AN AIRCRAFT AND A HOSE BURST INSIDE A HYDRANT PIT AND FUEL FLOWED INTO A CATCH BASIN.
Incident Date 11/9/2013 18:00
Year Reported 2013
Address NEWARK LIBERTY INTERNATIONAL AIRPORT
City ELIZABETH
State NJ
County ESSEX
Zip Code 07201

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident A PIT HEAD HAD LEAKED INTO A WELL AND RAIN WATER HAD CAUSED IT OVERFLOW THEN ENTER A DRAIN.

THE CALLER STATED THE AMOUNT DISCHARGED WAS 40 GALLONS OF FUEL AND WATER MIXED, 20 GALLONS HAD ENTERED THE STORM DRAIN.
Incident Date 5/19/2010 14:00
Incident location GATE 122
Year Reported 2010
Address NEWARK INTERNATIONAL AIRPORT
City NEWARK
State NJ
County ESSEX

Location 40.69288, -74.18545
Distance to site 336 ft / 0.06 mi W
Incident THE CALLER IS REPORTING THAT DURING REFUELING 50 GALLONS OF JET 8 FUEL DISCHARGED FROM THE WING OF AN 757 COMMERCIAL JET DUE TO EQUIPMENT FAILURE. THE CALLER STATED THAT UP TO 5 GALLONS ENTERED A STORM DRAIN.
Incident Date 3/5/2009 19:00
Incident location GATE 137
Year Reported 2009
Address NEWARK INTERTATIONAL AIRPORT
City NEWARK
State NJ
County ESSEX

Emergency Response Notification System (ERNS)

Location	40.69288, -74.18545
Distance to site	336 ft / 0.06 mi W
Incident	CALLER IS REPORTING A DISCHARGE OF JET-A FUEL FROM A TRANSFER PUMP, THE CAUSE WAS DUE TO A FUEL TRANSFER THAT WAS TAKING PLACE AND A PLUG BLEW ON THE TRANSFER FUEL PUMP.
Incident Date	4/17/2014 18:45
Year Reported	2014
Address	NEWARK LIBERTY INTERNATIONAL AIRPORT
City	ELIZABETH
State	NJ
County	ESSEX
Zip Code	07201

Location	40.69746, -74.16659
Distance to site	5221 ft / 0.99 mi E
Incident	CALLER STATED THAT JET FUEL IS COMING OUT OF AN OUTFALL CONNECTED TO THE NEWARK AIRPORT STORM DRAIN SYSTEM. THIS PROBLEM OCCURRED IN JANUARY (NRC #929603) AND NOW IS INCREASING WITH THE INCREASED PRECIPITATION IN THE AREA. CALLER STATED THAT THE SOURCE OF THIS FUEL IS UNKNOWN. A CONTRACTOR HAS BEEN ON SCENE THIS WEEK AND IS CLEANING THE STORM DRAIN SYSTEM, HAS THE OUTFALL SURROUNDED WITH HARD BOOM, AND IS CLEANING THE MATERIAL THAT COMES OUT.
Incident Date	2/23/2010 8:00
Incident location	OUTFALL 014 NEAR NORTH BAY
Year Reported	2010
City	NEWARK
State	NJ
County	ESSEX
Zip Code	07114

US Toxic Release Inventory



This database returned 8 results for your area.

The Toxics Release Inventory (TRI) is a publicly available EPA database that contains information on toxic chemical releases and other waste management activities reported annually by certain covered industry groups as well as federal facilities. TRI reporters for all reporting years are provided in the file.

US Toxic Release Inventory

Location	40.69363, -74.19592
Distance to site	3235 ft / 0.61 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000581816
EPA Identifier	110000581816
Primary Name	ANHEUSER-BUSCH - NEWARK BREWERY
Address	200 US-1
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
NAICS Codes	312120
SIC Codes	2082
SIC Descriptions	MALT BEVERAGES
Programs	AIR, AIRS/AFS, BR, CEDRI, E-GGRT, EIA-860, EIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MAJOR, CESQG, COMPLIANCE ACTIVITY, COMPLIANCE AND EMISSIONS REPORTING, ELECTRIC GENERATOR, GREENHOUSE GAS REPORTER, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On	11-JAN-2016 16:08:20
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	BREWERIES.

US Toxic Release Inventory

Location	40.69153, -74.19643
Distance to site	3375 ft / 0.64 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000872280
EPA Identifier	110000872280
Primary Name	PENICK CORP
Address	158 MOUNT OLIVE AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-2114
NAICS Codes	325188, 325192, 325411, 325412
SIC Codes	2833, 2834, 2869
SIC Descriptions	INDUSTRIAL ORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED, MEDICINAL CHEMICALS AND BOTANICAL PRODUCTS, PHARMACEUTICAL PREPARATIONS
Programs	BR, EIS, ICIS, NJ-NJEMS, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, OTHER HAZARDOUS WASTE ACTIVITIES, SQG, STATE MASTER, TRI REPORTER
Updated On	31-DEC-2015 12:00:35
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING., CYCLIC CRUDE AND INTERMEDIATE MANUFACTURING., MEDICINAL AND BOTANICAL MANUFACTURING., PHARMACEUTICAL PREPARATION MANUFACTURING.

US Toxic Release Inventory

Location 40.70194, -74.18959
Distance to site 3724 ft / 0.71 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000319673
EPA Identifier 110000319673
Primary Name NEW JERSEY GALVANIZING & TINNING WORKS
Address 139 HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
NAICS Codes 331511, 331512, 332812
SIC Codes 3479
SIC Descriptions COATING, ENGRAVING, AND ALLIED SERVICES, NOT ELSEWHERE CLASSIFIED
Programs AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, STATE MASTER, TRI REPORTER
Updated On 08-JUN-2016 10:08:15
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions IRON FOUNDRIES., METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS., STEEL INVESTMENT FOUNDRIES.

Location 40.70189, -74.19054
Distance to site 3817 ft / 0.72 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110001531192
EPA Identifier 110001531192
Primary Name BESSEMER PROCESSING CO INC
Address 133 HAYNES AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
NAICS Codes 332439
SIC Codes 3412, 7699
SIC Descriptions METAL SHIPPING BARRELS, DRUMS, KEGS, AND PAILS, REPAIR SHOPS AND RELATED SERVICES, NOT ELSEWHERE CLASSIFIED
Programs NJ-NJEMS, RCRAINFO, TRIS
Program Interests STATE MASTER, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On 31-DEC-2015 10:39:12
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions OTHER METAL CONTAINER MANUFACTURING.

US Toxic Release Inventory

Location 40.70041, -74.19357
Distance to site 3843 ft / 0.73 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110013321994
EPA Identifier 110013321994
Primary Name CDI DISPERSIONS @ HAYNES MGNT PROPERTY
Address 27 HAYNS AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1313
NAICS Codes 325100, 325131, 325182, 325510
SIC Codes 2816, 2831, 2851, 5169
SIC Descriptions CHEMICALS AND ALLIED PRODUCTS, NOT ELSEWHERE CLASSIFIED, INORGANIC PIGMENTS, PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs AIR, AIRS/AFS, BR, EIS, NCDB, NJ-NJEMS, RCRAINFO, TRIS
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, CESQG, COMPLIANCE ACTIVITY, HAZARDOUS WASTE BIENNIAL REPORTER, STATE MASTER, TRI REPORTER
Updated On 07-OCT-2016 17:59:28
Recorded On 07-NOV-2002 17:10:36
NAICS Descriptions CARBON BLACK MANUFACTURING., INORGANIC DYE AND PIGMENT MANUFACTURING., PAINT AND COATING MANUFACTURING.

Location 40.69848, -74.19824
Distance to site 4419 ft / 0.84 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110001530987
EPA Identifier 110001530987
Primary Name WHITE CHEMICAL CORPORATION
Address 660 FRELINGHUYSEN AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1324
NAICS Codes 325000, 325192, 325613, 325998
SIC Codes 2865, 2869
SIC Descriptions CYCLIC ORGANIC CRUDES AND INTERMEDIATES, AND ORGANIC DYES AND PIGMENTS, INDUSTRIAL ORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED
Programs AIR, AIRS/AFS, ICIS, NCDB, NJ-NJEMS, RCRAINFO, SEMS, TRIS
Program Interests AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, STATE MASTER, SUPERFUND NPL, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On 26-FEB-2016 15:01:31
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING., CYCLIC CRUDE AND INTERMEDIATE MANUFACTURING., SURFACE ACTIVE AGENT MANUFACTURING.

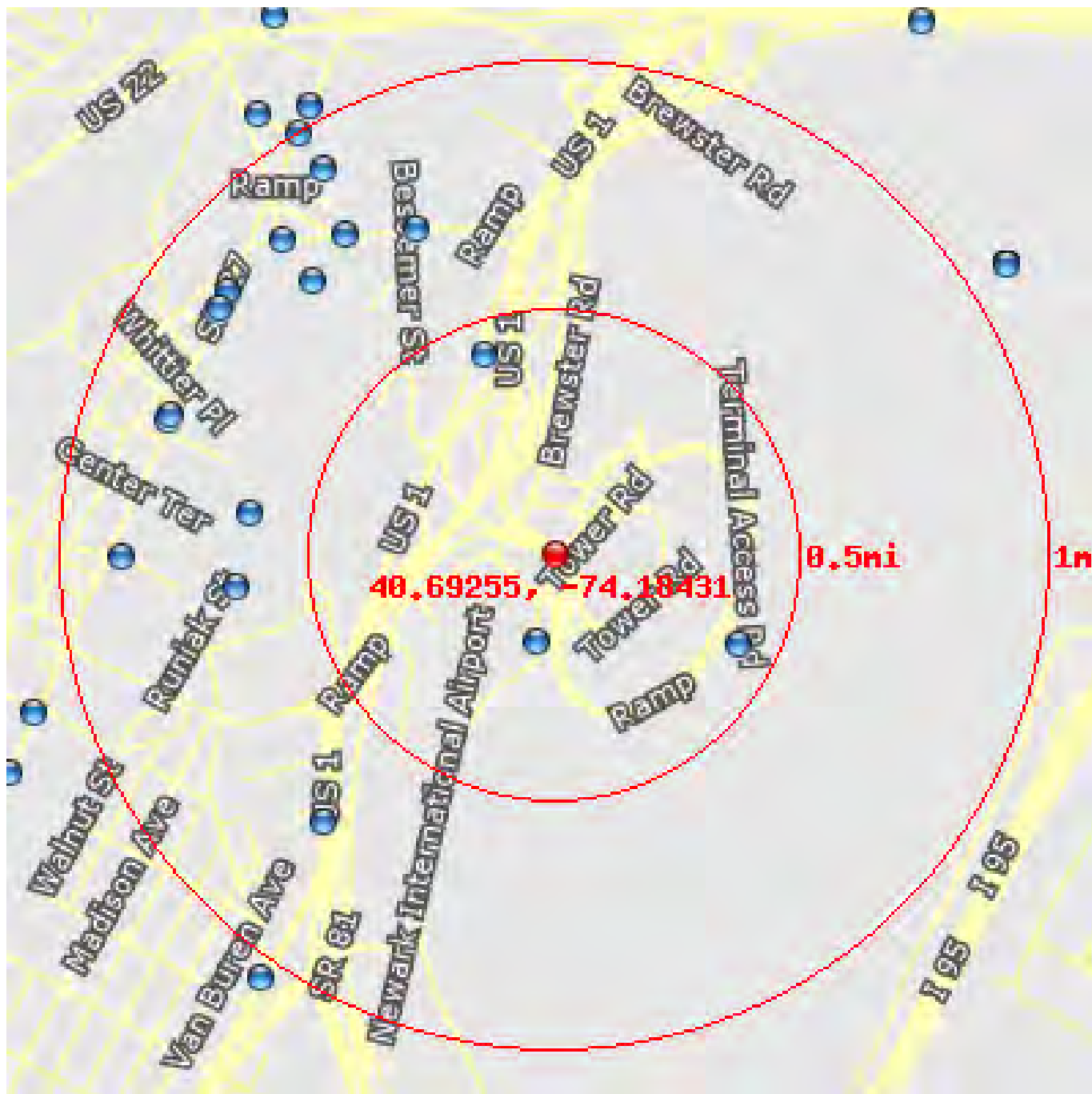
US Toxic Release Inventory

Location	40.70367, -74.19308
Distance to site	4726 ft / 0.9 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000871833
EPA Identifier	110000871833
Primary Name	RUST-OLEUM CORP
Address	480 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1419
NAICS Codes	325510
SIC Codes	2851
SIC Descriptions	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs	AIR, AIRS/AFS, BR, ICIS, NCDB, RCRAINFO, SSTS, TRIS, TSCA
Program Interests	AIR MINOR, COMPLIANCE ACTIVITY, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, PESTICIDE PRODUCER, SQG, TRI REPORTER, TSCA SUBMITTER, TSD
Updated On	08-OCT-2016 10:23:29
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	PAINT AND COATING MANUFACTURING.

US Toxic Release Inventory

Location	40.70473, -74.1941
Distance to site	5204 ft / 0.99 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000319691
EPA Identifier	110000319691
Primary Name	FIDELITY CHEMICAL PROD CORP
Address	470 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1419
NAICS Codes	325188, 325612, 325998, 331492
SIC Codes	2819, 2842, 2899, 3900
SIC Descriptions	CHEMICALS AND CHEMICAL PREPARATIONS, NOT ELSEWHERE CLASSIFIED, INDUSTRIAL INORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED, SPECIALTY CLEANING, POLISHING, AND SANITATION PREPARATIONS
Programs	AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, RCRAINFO, TRIS, TSCA
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, STATE MASTER, TRI REPORTER, TSCA SUBMITTER
Updated On	31-DEC-2015 11:38:55
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING., ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING., POLISH AND OTHER SANITATION GOOD MANUFACTURING., SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM).

US RCRA Generators (CESQG, SQG, LQG)



This database returned 17 results for your area.

The United States Environmental Protection Agency (EPA) regulates hazardous waste under the Resource Conservation and Recovery Act (RCRA). EPA maintains a database of facilities, which generate hazardous waste or treat, store, and/or dispose of hazardous wastes.

Conditionally Exempt Small Quantity Generators (CESQG) generate 100 kilograms or less per month of hazardous waste, or 1 kilogram or less per month of acutely hazardous waste.

Small Quantity Generators (SQG) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Large Quantity Generators (LQG) generate 1,000 kilograms per month or more of hazardous waste, or more than 1 kilogram per month of acutely hazardous waste.

US RCRA Generators (CESQG, SQG, LQG)

Location	40.68995, -74.18496
Distance to site	969 ft / 0.18 mi S
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110006532207
EPA Identifier	110006532207
Primary Name	HERTZ RENT A CAR @ NEWARK LIBERTY INTNL AIRPORT
Address	23 NEWARK AIRPORT
City	NEWARK
County	ESSEX
State	NJ
Zipcode	071143797
NAICS Codes	532111
SIC Codes	5541, 7514
SIC Descriptions	GASOLINE SERVICE STATIONS, PASSENGER CAR RENTAL
Programs	NJ-NJEMS, RCRAINFO
Program Interests	CESQG, STATE MASTER
Updated On	09-MAR-2012 06:18:59
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	PASSENGER CAR RENTAL.

Location	40.68987, -74.17713
Distance to site	2214 ft / 0.42 mi E
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110007930427
EPA Identifier	110007930427
Primary Name	DELTA AIRLINES
Address	67 TERMINAL B BLDG 339
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-3787
NAICS Codes	481111
SIC Codes	4512
SIC Descriptions	AIR TRANSPORTATION, SCHEDULED
Programs	NJ-NJEMS, NPDES, RCRAINFO
Program Interests	ICIS-NPDES NON-MAJOR, SQG, STATE MASTER
Updated On	05-JUL-2016 10:05:43
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	SCHEDULED PASSENGER AIR TRANSPORTATION.

US RCRA Generators (CESQG, SQG, LQG)

Location 40.69831, -74.18693
Distance to site 2221 ft / 0.42 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110006190022
EPA Identifier 110006190022
Primary Name BUDGET RENT A CAR
Address 472 US HWY 1
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs RCRAINFO
Program Interests CESQG
Updated On 09-AUG-2010 08:41:56
Recorded On 01-MAR-2000 00:00:00

Location 40.69363, -74.19592
Distance to site 3235 ft / 0.61 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000581816
EPA Identifier 110000581816
Primary Name ANHEUSER-BUSCH - NEWARK BREWERY
Address 200 US-1
City NEWARK
County ESSEX
State NJ
Zipcode 07101
NAICS Codes 312120
SIC Codes 2082
SIC Descriptions MALT BEVERAGES
Programs AIR, AIRS/AFS, BR, CEDRI, E-GGRT, EIA-860, EIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MAJOR, CESQG, COMPLIANCE ACTIVITY, COMPLIANCE AND EMISSIONS REPORTING, ELECTRIC GENERATOR, GREENHOUSE GAS REPORTER, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On 11-JAN-2016 16:08:20
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions BREWERIES.

US RCRA Generators (CESQG, SQG, LQG)

Location	40.69153, -74.19643
Distance to site	3375 ft / 0.64 mi W
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110000872280
EPA Identifier	110000872280
Primary Name	PENICK CORP
Address	158 MOUNT OLIVE AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-2114
NAICS Codes	325188, 325192, 325411, 325412
SIC Codes	2833, 2834, 2869
SIC Descriptions	INDUSTRIAL ORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED, MEDICINAL CHEMICALS AND BOTANICAL PRODUCTS, PHARMACEUTICAL PREPARATIONS
Programs	BR, EIS, ICIS, NJ-NJEMS, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, OTHER HAZARDOUS WASTE ACTIVITIES, SQG, STATE MASTER, TRI REPORTER
Updated On	31-DEC-2015 12:00:35
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING., CYCLIC CRUDE AND INTERMEDIATE MANUFACTURING., MEDICINAL AND BOTANICAL MANUFACTURING., PHARMACEUTICAL PREPARATION MANUFACTURING.

US RCRA Generators (CESQG, SQG, LQG)

Location	40.70194, -74.18959
Distance to site	3724 ft / 0.71 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000319673
EPA Identifier	110000319673
Primary Name	NEW JERSEY GALVANIZING & TINNING WORKS
Address	139 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	331511, 331512, 332812
SIC Codes	3479
SIC Descriptions	COATING, ENGRAVING, AND ALLIED SERVICES, NOT ELSEWHERE CLASSIFIED
Programs	AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, STATE MASTER, TRI REPORTER
Updated On	08-JUN-2016 10:08:15
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	IRON FOUNDRIES., METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS., STEEL INVESTMENT FOUNDRIES.

Location	40.68464, -74.19311
Distance to site	3777 ft / 0.72 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110018875706
EPA Identifier	110018875706
Primary Name	HAMPTON INN
Address	1128-1138 SPRING ST
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
Programs	RCRAINFO
Program Interests	SQG
Updated On	29-DEC-2014 16:08:05
Recorded On	08-NOV-2004 07:27:18

US RCRA Generators (CESQG, SQG, LQG)

Location 40.70041, -74.19357
Distance to site 3843 ft / 0.73 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110013321994
EPA Identifier 110013321994
Primary Name CDI DISPERSIONS @ HAYNES MGNT PROPERTY
Address 27 HAYNS AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1313
NAICS Codes 325100, 325131, 325182, 325510
SIC Codes 2816, 2831, 2851, 5169
SIC Descriptions CHEMICALS AND ALLIED PRODUCTS, NOT ELSEWHERE CLASSIFIED, INORGANIC PIGMENTS, PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs AIR, AIRS/AFS, BR, EIS, NCDB, NJ-NJEMS, RCRAINFO, TRIS
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, CESQG, COMPLIANCE ACTIVITY, HAZARDOUS WASTE BIENNIAL REPORTER, STATE MASTER, TRI REPORTER
Updated On 07-OCT-2016 17:59:28
Recorded On 07-NOV-2002 17:10:36
NAICS Descriptions CARBON BLACK MANUFACTURING., INORGANIC DYE AND PIGMENT MANUFACTURING., PAINT AND COATING MANUFACTURING.

Location 40.7018, -74.19227
Distance to site 4029 ft / 0.76 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040267449
EPA Identifier 110040267449
Primary Name NJDOT BRIDGE PAINTING
Address HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS, RCRAINFO
Program Interests LQG, STATE MASTER
Updated On 12-FEB-2014 17:34:28
Recorded On 17-JAN-2010 05:58:22

US RCRA Generators (CESQG, SQG, LQG)

Location	40.69651, -74.19901
Distance to site	4316 ft / 0.82 mi W
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110060230316
EPA Identifier	110060230316
Primary Name	FAMILY DOLLAR STORES OF NJ INC #7635
Address	727 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	071141332
NAICS Codes	045299
Programs	NJ-NJEMS, RCRAINFO
Program Interests	CESQG, STATE MASTER
Updated On	28-AUG-2014 14:28:40
Recorded On	22-JUL-2014 19:42:48

Location	40.69634, -74.1991
Distance to site	4318 ft / 0.82 mi W
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110014991376
EPA Identifier	110014991376
Primary Name	ARAMARK UNIFORM & CAREER APPAREL INC
Address	740 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1343
SIC Codes	7218
SIC Descriptions	INDUSTRIAL LAUNDERERS
Programs	NJ-NJEMS, RCRAINFO
Program Interests	CESQG, STATE MASTER
Updated On	31-OCT-2014 04:08:18
Recorded On	11-JUL-2003 11:24:24

US RCRA Generators (CESQG, SQG, LQG)

Location	40.69962, -74.19714
Distance to site	4386 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110024555328
EPA Identifier	110024555328
Primary Name	SWAN CHEMICAL
Address	634 FREYLINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	221118
Programs	NJ-NJEMS, RCRAINFO
Program Interests	LQG, STATE MASTER
Updated On	13-FEB-2014 09:10:13
Recorded On	26-APR-2006 19:49:15

Location	40.70166, -74.19467
Distance to site	4387 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110006855590
EPA Identifier	110006855590
Primary Name	PROTEX A COTE INC @ HAYNES MANAGEMENT
Address	27 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2851
SIC Descriptions	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs	NJ-NJEMS, RCRAINFO
Program Interests	LQG, STATE MASTER
Updated On	09-AUG-2010 08:40:32
Recorded On	01-MAR-2000 00:00:00

US RCRA Generators (CESQG, SQG, LQG)

Location	40.70014, -74.1968
Distance to site	4428 ft / 0.84 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029333308
EPA Identifier	110029333308
Primary Name	US TRANSPORTATION SECURITY ADMIN
Address	614 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	048819
SIC Codes	4811
Programs	BR, FFDOCKET, NJ-NJEMS, RCRAINFO
Program Interests	FEDERAL FACILITY HAZARDOUS WASTE DOCKET, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, STATE MASTER
Updated On	13-JUL-2016 09:17:18
Recorded On	25-APR-2007 15:04:01

Location	40.69239, -74.20086
Distance to site	4579 ft / 0.87 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004232606
EPA Identifier	110004232606
Primary Name	BON ART INTERNATIONAL STUDIOS INC
Address	99 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2542, 3552
SIC Descriptions	OFFICE AND STORE FIXTURES, PARTITIONS, SHELVING, AND LOCKERS, EXCEPT WOOD, TEXTILE MACHINERY
Programs	NJ-NJEMS, RCRAINFO
Program Interests	CESQG, STATE MASTER
Updated On	08-OCT-2010 06:14:42
Recorded On	01-MAR-2000 00:00:00

US RCRA Generators (CESQG, SQG, LQG)

Location	40.70367, -74.19308
Distance to site	4726 ft / 0.9 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000871833
EPA Identifier	110000871833
Primary Name	RUST-OLEUM CORP
Address	480 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1419
NAICS Codes	325510
SIC Codes	2851
SIC Descriptions	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs	AIR, AIRS/AFS, BR, ICIS, NCDB, RCRAINFO, SSTS, TRIS, TSCA
Program Interests	AIR MINOR, COMPLIANCE ACTIVITY, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, PESTICIDE PRODUCER, SQG, TRI REPORTER, TSCA SUBMITTER, TSD
Updated On	08-OCT-2016 10:23:29
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	PAINT AND COATING MANUFACTURING.

US RCRA Generators (CESQG, SQG, LQG)

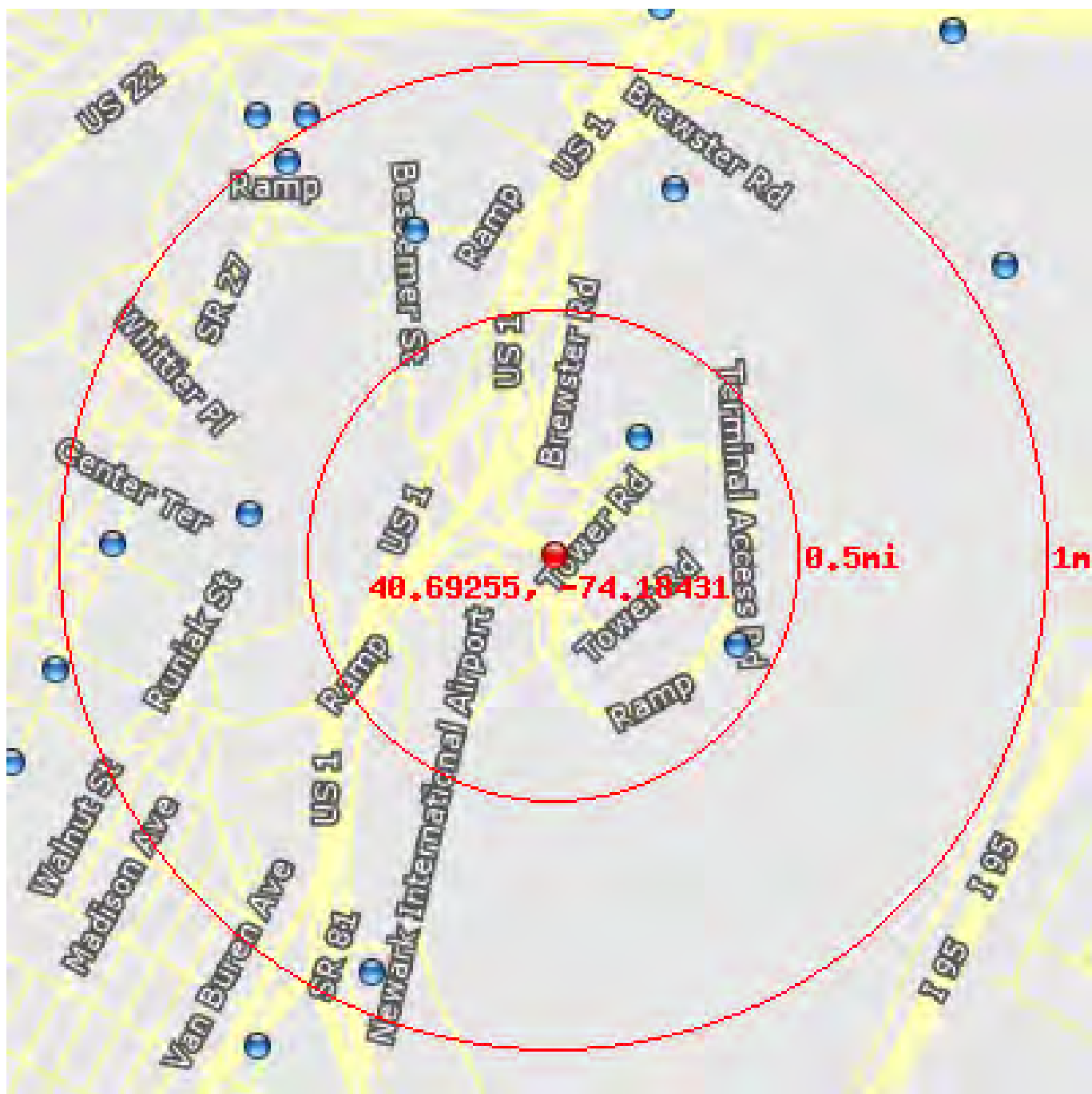
Location	40.70473, -74.1941
Distance to site	5204 ft / 0.99 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000319691
EPA Identifier	110000319691
Primary Name	FIDELITY CHEMICAL PROD CORP
Address	470 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1419
NAICS Codes	325188, 325612, 325998, 331492
SIC Codes	2819, 2842, 2899, 3900
SIC Descriptions	CHEMICALS AND CHEMICAL PREPARATIONS, NOT ELSEWHERE CLASSIFIED, INDUSTRIAL INORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED, SPECIALTY CLEANING, POLISHING, AND SANITATION PREPARATIONS
Programs	AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, RCRAINFO, TRIS, TSCA
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, STATE MASTER, TRI REPORTER, TSCA SUBMITTER
Updated On	31-DEC-2015 11:38:55
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING., ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING., POLISH AND OTHER SANITATION GOOD MANUFACTURING., SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM).

US ACRES (Brownfields)

This database returned 0 results for your area.

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. The Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an online database for Brownfields Grantees to electronically submit data directly to The United States Environmental Protection Agency (EPA)

US NPDES



This database returned 8 results for your area.

The NPDES module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

US NPDES

Location 40.69587, -74.18096
Distance to site 1525 ft / 0.29 mi NE
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110009114635
EPA Identifier 110009114635
Primary Name MIDWEST EXPRESS AIRLINES
Address NEWARK INTERNATIONAL AIRPORT
City NEWARK
County ESSEX
State NJ
Zipcode 07114
SIC Codes 4512
SIC Descriptions AIR TRANSPORTATION, SCHEDULED
Programs NJ-NJEMS, NPDES
Program Interests ICIS-NPDES NON-MAJOR, STATE MASTER
Updated On 05-MAR-2013 10:06:37
Recorded On 01-MAR-2000 00:00:00

Location 40.68987, -74.17713
Distance to site 2214 ft / 0.42 mi E
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110007930427
EPA Identifier 110007930427
Primary Name DELTA AIRLINES
Address 67 TERMINAL B BLDG 339
City NEWARK
County ESSEX
State NJ
Zipcode 07114-3787
NAICS Codes 481111
SIC Codes 4512
SIC Descriptions AIR TRANSPORTATION, SCHEDULED
Programs NJ-NJEMS, NPDES, RCRAINFO
Program Interests ICIS-NPDES NON-MAJOR, SQG, STATE MASTER
Updated On 05-JUL-2016 10:05:43
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions SCHEDULED PASSENGER AIR TRANSPORTATION.

US NPDES

Location	40.69363, -74.19592
Distance to site	3235 ft / 0.61 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000581816
EPA Identifier	110000581816
Primary Name	ANHEUSER-BUSCH - NEWARK BREWERY
Address	200 US-1
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
NAICS Codes	312120
SIC Codes	2082
SIC Descriptions	MALT BEVERAGES
Programs	AIR, AIRS/AFS, BR, CEDRI, E-GGRT, EIA-860, EIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MAJOR, CESQG, COMPLIANCE ACTIVITY, COMPLIANCE AND EMISSIONS REPORTING, ELECTRIC GENERATOR, GREENHOUSE GAS REPORTER, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On	11-JAN-2016 16:08:20
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	BREWERIES.

US NPDES

Location	40.70194, -74.18959
Distance to site	3724 ft / 0.71 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000319673
EPA Identifier	110000319673
Primary Name	NEW JERSEY GALVANIZING & TINNING WORKS
Address	139 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	331511, 331512, 332812
SIC Codes	3479
SIC Descriptions	COATING, ENGRAVING, AND ALLIED SERVICES, NOT ELSEWHERE CLASSIFIED
Programs	AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, STATE MASTER, TRI REPORTER
Updated On	08-JUN-2016 10:08:15
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	IRON FOUNDRIES., METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS., STEEL INVESTMENT FOUNDRIES.

Location	40.70316, -74.17959
Distance to site	4085 ft / 0.77 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004197967
EPA Identifier	110004197967
Primary Name	WASTE MANAGEMENT INC AVE A TRANSFER & RECYCLING CENTER
Address	100 AVE A
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-2436
SIC Codes	4212, 5014
SIC Descriptions	LOCAL TRUCKING WITHOUT STORAGE, TIRES AND TUBES
Programs	AIR, NJ-NJEMS, NPDES, RCRAINFO
Program Interests	AIR SYNTHETIC MINOR, ICIS-NPDES NON-MAJOR, STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	11-JAN-2016 12:55:08
Recorded On	01-MAR-2000 00:00:00

US NPDES

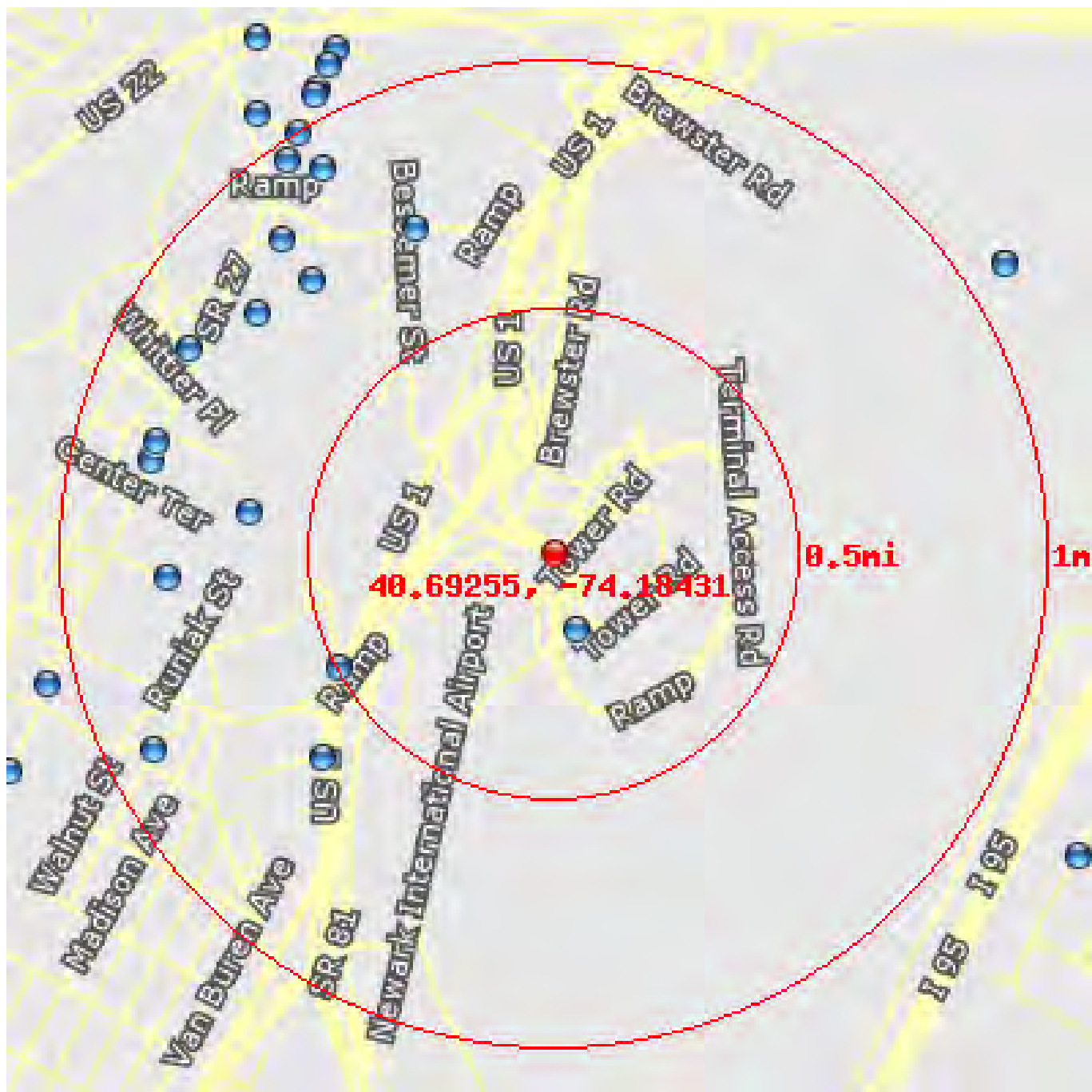
Location	40.69281, -74.20122
Distance to site	4679 ft / 0.89 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012304719
EPA Identifier	110012304719
Primary Name	EAST COAST TRUCK PARTS
Address	810 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	5015
SIC Descriptions	MOTOR VEHICLE PARTS, USED
Programs	NJ-NJEMS, NPDES
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER
Updated On	11-JAN-2016 19:12:46
Recorded On	01-MAR-2000 00:00:00

Location	40.68028, -74.19124
Distance to site	4873 ft / 0.92 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110009721916
EPA Identifier	110009721916
Primary Name	ELIZABETH CITY
Address	50 WINFIELD SCOTT PLAZA
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201-2408
SIC Codes	4952
SIC Descriptions	SEWERAGE SYSTEMS
Programs	ICIS, NPDES
Program Interests	FORMAL ENFORCEMENT ACTION, ICIS-NPDES NON-MAJOR, POTW
Updated On	11-JAN-2016 19:03:00
Recorded On	01-MAR-2000 00:00:00

US NPDES

Location	40.70397, -74.19454
Distance to site	5037 ft / 0.95 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012304648
EPA Identifier	110012304648
Primary Name	DUBLIN SCRAP METAL INC
Address	489 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1425
NAICS Codes	042393
SIC Codes	5093
SIC Descriptions	SCRAP AND WASTE MATERIALS
Programs	AIR, AIRS/AFS, NJ-NJEMS, NPDES
Program Interests	AIR MINOR, ICIS-NPDES NON-MAJOR, STATE MASTER
Updated On	11-JAN-2015 09:38:43
Recorded On	01-MAR-2000 00:00:00

US Air Facility System (AIRS / AFS)



This database returned 16 results for your area.

The Air Facility System (AIRS / AFS) contains compliance and permit data for stationary sources of air pollution (such as electric power plants, steel mills, factories, and universities) regulated by EPA, state and local air pollution agencies. The information in AFS is used by the states to prepare State Implementation Plans (SIPs) and to track the compliance status of point sources with various regulatory programs under Clean Air Act.

US Air Facility System (AIRS / AFS)

Location 40.69028, -74.18333
Distance to site 874 ft / 0.17 mi SE
Info URL http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110037579732
EPA Identifier 110037579732
Primary Name PORT AUTHORITY OF NEW YORK & NEW JERSEY
Address NEWARK INT. AIRPORT
City ELIZABETH
County UNION
State NJ
Zipcode 10048
SIC Codes 4463, 4581
SIC Descriptions AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES
Programs AIR, AIRS/AFS, ICIS
Program Interests AIR SYNTHETIC MINOR, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION
Updated On 03-MAY-2015 21:35:39
Recorded On 06-JAN-2009 15:09:16

Location 40.68916, -74.1925
Distance to site 2583 ft / 0.49 mi W
Info URL http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110029584983
EPA Identifier 110029584983
Primary Name MANNKRAFT CORP
Address 1000 RT 1
City NEW JERSEY
County ESSEX
State NJ
Zipcode 07114
NAICS Codes 322211
SIC Codes 2649, 2653, 2676, 3061
SIC Descriptions CORRUGATED AND SOLID FIBER BOXES, MOLDED, EXTRUDED, AND LATHE-CUT MECHANICAL RUBBER GOODS, SANITARY PAPER PRODUCTS
Programs AIR, AIRS/AFS, NCDB, NJ-NJEMS, RCRAINFO
Program Interests AIR SYNTHETIC MINOR, COMPLIANCE ACTIVITY, STATE MASTER, UNSPECIFIED UNIVERSE
Updated On 09-JAN-2015 17:31:24
Recorded On 03-MAY-2007 01:58:16
NAICS Descriptions CORRUGATED AND SOLID FIBER BOX MANUFACTURING.

US Air Facility System (AIRS / AFS)

Location	40.69363, -74.19592
Distance to site	3235 ft / 0.61 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000581816
EPA Identifier	110000581816
Primary Name	ANHEUSER-BUSCH - NEWARK BREWERY
Address	200 US-1
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
NAICS Codes	312120
SIC Codes	2082
SIC Descriptions	MALT BEVERAGES
Programs	AIR, AIRS/AFS, BR, CEDRI, E-GGRT, EIA-860, EIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MAJOR, CESQG, COMPLIANCE ACTIVITY, COMPLIANCE AND EMISSIONS REPORTING, ELECTRIC GENERATOR, GREENHOUSE GAS REPORTER, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On	11-JAN-2016 16:08:20
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	BREWERIES.

Location	40.68651, -74.19308
Distance to site	3281 ft / 0.62 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110015215621
EPA Identifier	110015215621
Primary Name	HILTON HOTEL @ NEWARK AIRPORT
Address	1170 SPRING ST
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
NAICS Codes	721110
SIC Codes	7011
SIC Descriptions	HOTELS AND MOTELS
Programs	AIR, AIRS/AFS, NJ-NJEMS
Program Interests	AIR SYNTHETIC MINOR, STATE MASTER
Updated On	09-JAN-2015 19:31:38
Recorded On	14-JUL-2003 14:38:37
NAICS Descriptions	HOTELS (EXCEPT CASINO HOTELS) AND MOTELS.

US Air Facility System (AIRS / AFS)

Location 40.70194, -74.18959
Distance to site 3724 ft / 0.71 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000319673
EPA Identifier 110000319673
Primary Name NEW JERSEY GALVANIZING & TINNING WORKS
Address 139 HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
NAICS Codes 331511, 331512, 332812
SIC Codes 3479
SIC Descriptions COATING, ENGRAVING, AND ALLIED SERVICES, NOT ELSEWHERE CLASSIFIED
Programs AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, STATE MASTER, TRI REPORTER
Updated On 08-JUN-2016 10:08:15
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions IRON FOUNDRIES., METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS., STEEL INVESTMENT FOUNDRIES.

Location 40.70041, -74.19357
Distance to site 3843 ft / 0.73 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110013321994
EPA Identifier 110013321994
Primary Name CDI DISPERSIONS @ HAYNES MGNT PROPERTY
Address 27 HAYNS AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1313
NAICS Codes 325100, 325131, 325182, 325510
SIC Codes 2816, 2831, 2851, 5169
SIC Descriptions CHEMICALS AND ALLIED PRODUCTS, NOT ELSEWHERE CLASSIFIED, INORGANIC PIGMENTS, PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs AIR, AIRS/AFS, BR, EIS, NCDB, NJ-NJEMS, RCRAINFO, TRIS
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, CESQG, COMPLIANCE ACTIVITY, HAZARDOUS WASTE BIENNIAL REPORTER, STATE MASTER, TRI REPORTER
Updated On 07-OCT-2016 17:59:28
Recorded On 07-NOV-2002 17:10:36
NAICS Descriptions CARBON BLACK MANUFACTURING., INORGANIC DYE AND PIGMENT MANUFACTURING., PAINT AND COATING MANUFACTURING.

US Air Facility System (AIRS / AFS)

Location	40.69951, -74.19564
Distance to site	4034 ft / 0.76 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110001531931
EPA Identifier	110001531931
Primary Name	WESTON INSTRUMENTS
Address	614 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1356
NAICS Codes	334515
SIC Codes	3679, 3811, 3825
SIC Descriptions	ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED, INSTRUMENTS FOR MEASURING AND TESTING OF ELECTRICITY AND ELECTRICAL SIGNALS
Programs	AIR, AIRS/AFS, ICIS, NCDB, RCRAINFO
Program Interests	AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, UNSPECIFIED UNIVERSE
Updated On	03-MAY-2015 11:39:29
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	INSTRUMENT MANUFACTURING FOR MEASURING AND TESTING ELECTRICITY AND ELECTRICAL SIGNALS.

Location	40.69174, -74.19912
Distance to site	4108 ft / 0.78 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110015004975
EPA Identifier	110015004975
Primary Name	ASSOCIATED HUMANE SOCIETIES
Address	124 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	0279, 0752
SIC Descriptions	ANIMAL SPECIALTIES, NOT ELSEWHERE CLASSIFIED, ANIMAL SPECIALTY SERVICES, EXCEPT VETERINARY
Programs	AIR, AIRS/AFS, NJ-NJEMS
Program Interests	AIR MINOR, STATE MASTER
Updated On	09-JAN-2015 18:17:19
Recorded On	11-JUL-2003 11:55:30

US Air Facility System (AIRS / AFS)

Location	40.69572, -74.19949
Distance to site	4354 ft / 0.82 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110001531496
EPA Identifier	110001531496
Primary Name	KAY MFG CORP
Address	750 FRELINGHUYSEN
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2515
SIC Descriptions	MATTRESSES, FOUNDATIONS, AND CONVERTIBLE BEDS
Programs	AIR, AIRS/AFS
Program Interests	AIR MINOR
Updated On	09-JAN-2015 14:32:35
Recorded On	01-MAR-2000 00:00:00

Location	40.70166, -74.19467
Distance to site	4387 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110006552658
EPA Identifier	110006552658
Primary Name	COMPASS COMMUNICATNS
Address	27 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	334411
SIC Codes	3671
SIC Descriptions	ELECTRON TUBES
Programs	AIR, AIRS/AFS
Program Interests	AIR MINOR
Updated On	09-JAN-2015 15:44:35
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	ELECTRON TUBE MANUFACTURING.

US Air Facility System (AIRS / AFS)

Location 40.69521, -74.19979
Distance to site 4391 ft / 0.83 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014820257
EPA Identifier 110014820257
Primary Name CITIBAG
Address 768 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
SIC Codes 2671, 2673
SIC Descriptions PACKAGING PAPER AND PLASTICS FILM, COATED AND LAMINATED, PLASTICS, FOIL, AND COATED PAPER BAGS
Programs AIR, AIRS/AFS, NJ-NJEMS
Program Interests AIR MINOR, STATE MASTER
Updated On 09-JAN-2015 18:42:18
Recorded On 11-JUL-2003 04:11:36

Location 40.69848, -74.19824
Distance to site 4419 ft / 0.84 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110001530987
EPA Identifier 110001530987
Primary Name WHITE CHEMICAL CORPORATION
Address 660 FRELINGHUYSEN AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1324
NAICS Codes 325000, 325192, 325613, 325998
SIC Codes 2865, 2869
SIC Descriptions CYCLIC ORGANIC CRUDES AND INTERMEDIATES, AND ORGANIC DYES AND PIGMENTS, INDUSTRIAL ORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED
Programs AIR, AIRS/AFS, ICIS, NCDB, NJ-NJEMS, RCRAINFO, SEMS, TRIS
Program Interests AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, STATE MASTER, SUPERFUND NPL, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On 26-FEB-2016 15:01:31
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING., CYCLIC CRUDE AND INTERMEDIATE MANUFACTURING., SURFACE ACTIVE AGENT MANUFACTURING.

US Air Facility System (AIRS / AFS)

Location	40.70367, -74.19308
Distance to site	4726 ft / 0.9 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110000871833
EPA Identifier	110000871833
Primary Name	RUST-OLEUM CORP
Address	480 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1419
NAICS Codes	325510
SIC Codes	2851
SIC Descriptions	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs	AIR, AIRS/AFS, BR, ICIS, NCDB, RCRAINFO, SSTS, TRIS, TSCA
Program Interests	AIR MINOR, COMPLIANCE ACTIVITY, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, PESTICIDE PRODUCER, SQG, TRI REPORTER, TSCA SUBMITTER, TSD
Updated On	08-OCT-2016 10:23:29
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	PAINT AND COATING MANUFACTURING.

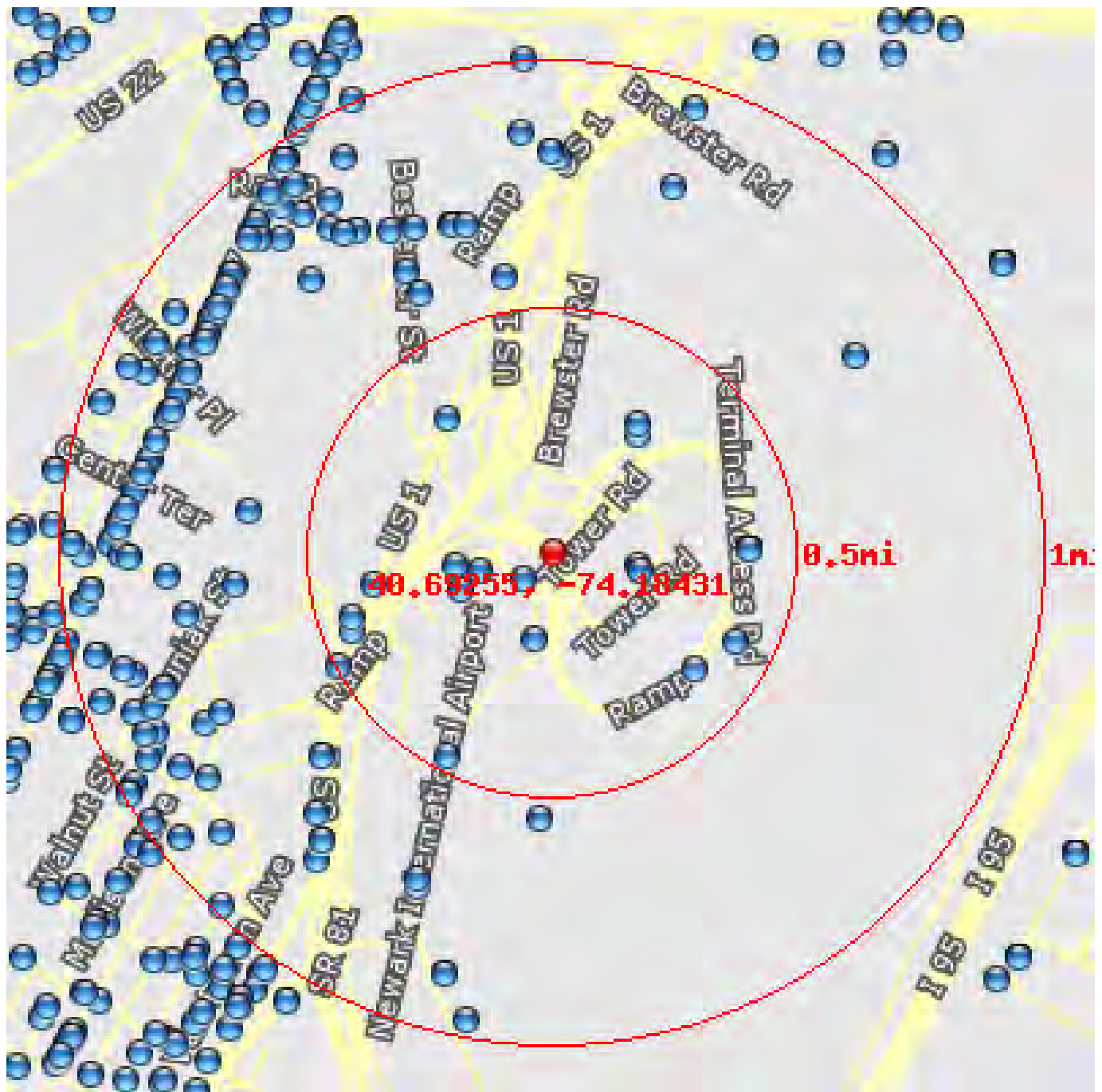
Location	40.68672, -74.19961
Distance to site	4738 ft / 0.9 mi W
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110000802007
EPA Identifier	110000802007
Primary Name	PHARMACAPS
Address	1111 JEFFERSON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07207
NAICS Codes	325412
SIC Codes	2834
SIC Descriptions	PHARMACEUTICAL PREPARATIONS
Programs	AIR, AIRS/AFS, NCDB, NJ-NJEMS, RCRAINFO
Program Interests	AIR MINOR, COMPLIANCE ACTIVITY, STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	09-JAN-2015 14:44:29
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	PHARMACEUTICAL PREPARATION MANUFACTURING.

US Air Facility System (AIRS / AFS)

Location 40.70397, -74.19454
Distance to site 5037 ft / 0.95 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012304648
EPA Identifier 110012304648
Primary Name DUBLIN SCRAP METAL INC
Address 489 FRELINGHUYSEN AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1425
NAICS Codes 042393
SIC Codes 5093
SIC Descriptions SCRAP AND WASTE MATERIALS
Programs AIR, AIRS/AFS, NJ-NJEMS, NPDES
Program Interests AIR MINOR, ICIS-NPDES NON-MAJOR, STATE MASTER
Updated On 11-JAN-2015 09:38:43
Recorded On 01-MAR-2000 00:00:00

Location 40.70473, -74.1941
Distance to site 5204 ft / 0.99 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000319691
EPA Identifier 110000319691
Primary Name FIDELITY CHEMICAL PROD CORP
Address 470 FRELINGHUYSEN AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1419
NAICS Codes 325188, 325612, 325998, 331492
SIC Codes 2819, 2842, 2899, 3900
SIC Descriptions CHEMICALS AND CHEMICAL PREPARATIONS, NOT ELSEWHERE CLASSIFIED, INDUSTRIAL INORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED, SPECIALTY CLEANING, POLISHING, AND SANITATION PREPARATIONS
Programs AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, RCRAINFO, TRIS, TSCA
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, STATE MASTER, TRI REPORTER, TSCA SUBMITTER
Updated On 31-DEC-2015 11:38:55
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING., ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING., POLISH AND OTHER SANITATION GOOD MANUFACTURING., SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM).

NJ Environmental Management System



This database returned 213 results for your area.

The New Jersey Department of Environmental Protection (NJDEP) has several large databases of environmental information. The New Jersey Environmental Management System (NJEMS) is an integrated transactional Oracle database that contains the NJDEP's major program databases. NJEMS consolidates many existing individual data management systems across NJDEP and across many media (e.g., air, water, and land). In effect it is an integrated department-wide data management system to be used primarily for permit, reporting, and enforcement activities.

NJ Environmental Management System

Location	40.69168, -74.18531
Distance to site	422 ft / 0.08 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040243484
EPA Identifier	110040243484
Primary Name	NEWARK AIRPORT SERVICE STATION & CAR WASH @ NEWARK LIBERTY INTNL AIRPORT
Address	LINDBERGH RD
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	044719
SIC Codes	5541
SIC Descriptions	GASOLINE SERVICE STATIONS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	27-JUL-2011 13:04:44
Recorded On	16-JAN-2010 07:23:58

Location	40.69194, -74.18707
Distance to site	795 ft / 0.15 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029896851
EPA Identifier	110029896851
Primary Name	AVIS RENT A CAR INC @ NEWARK LIBERTY INTNL AIRPORT
Address	B ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	5541, 7514
SIC Descriptions	GASOLINE SERVICE STATIONS, PASSENGER CAR RENTAL
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:37:52
Recorded On	11-MAY-2007 19:54:50

NJ Environmental Management System

Location	40.69205, -74.18098
Distance to site	941 ft / 0.18 mi E
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110015103092
EPA Identifier	110015103092
Primary Name	PORT AUTH NY/NJ MAINTENANCE FACILITY @ NEWARK LIBERTY INTNL AIRPORT
Address	BREWSTER RD
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:59:42
Recorded On	11-JUL-2003 16:25:11

Location	40.68995, -74.18496
Distance to site	969 ft / 0.18 mi S
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110006532207
EPA Identifier	110006532207
Primary Name	HERTZ RENT A CAR @ NEWARK LIBERTY INTNL AIRPORT
Address	23 NEWARK AIRPORT
City	NEWARK
County	ESSEX
State	NJ
Zipcode	071143797
NAICS Codes	532111
SIC Codes	5541, 7514
SIC Descriptions	GASOLINE SERVICE STATIONS, PASSENGER CAR RENTAL
Programs	NJ-NJEMS, RCRAINFO
Program Interests	CESQG, STATE MASTER
Updated On	09-MAR-2012 06:18:59
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	PASSENGER CAR RENTAL.

NJ Environmental Management System

Location	40.69189, -74.18082
Distance to site	997 ft / 0.19 mi E
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014899734
EPA Identifier	110014899734
Primary Name	NEWARK LIBERTY INTNL AIRPORT
Address	RT 1/9
City	NEWARK AIRPORT
County	ESSEX
State	NJ
Zipcode	07101
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:51:06
Recorded On	11-JUL-2003 07:31:14

Location	40.6921, -74.18794
Distance to site	1018 ft / 0.19 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110015102636
EPA Identifier	110015102636
Primary Name	AIRIS NEWARK @ NEWARK LIBERTY INTNL AIRPORT
Address	BREWSTER RD
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	6552
SIC Descriptions	LAND SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 15:00:33
Recorded On	11-JUL-2003 16:23:56

NJ Environmental Management System

Location	40.69136, -74.1878
Distance to site	1058 ft / 0.2 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029910844
EPA Identifier	110029910844
Primary Name	NATIONAL RENTAL US INC @ NEWARK LIBERTY INTNL AIRPORT
Address	BLDG 25
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
NAICS Codes	532111
SIC Codes	7514
SIC Descriptions	PASSENGER CAR RENTAL
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	11-MAY-2011 00:52:18
Recorded On	11-MAY-2007 20:04:38
NAICS Descriptions	PASSENGER CAR RENTAL.

Location	40.69587, -74.18096
Distance to site	1525 ft / 0.29 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110009114537
EPA Identifier	110009114537
Primary Name	EL AL ISRAEL AIRLINES @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL B
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4581
SIC Descriptions	AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:27:13
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.69587, -74.18096
Distance to site	1525 ft / 0.29 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110009114635
EPA Identifier	110009114635
Primary Name	MIDWEST EXPRESS AIRLINES
Address	NEWARK INTERNATIONAL AIRPORT
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4512
SIC Descriptions	AIR TRANSPORTATION, SCHEDULED
Programs	NJ-NJEMS, NPDES
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER
Updated On	05-MAR-2013 10:06:37
Recorded On	01-MAR-2000 00:00:00

Location	40.69587, -74.18096
Distance to site	1525 ft / 0.29 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012304229
EPA Identifier	110012304229
Primary Name	SOCIETE AIR FRANCE @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL C
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4581
SIC Descriptions	AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:17:09
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.69587, -74.18096
Distance to site	1525 ft / 0.29 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012304728
EPA Identifier	110012304728
Primary Name	TAP AIR PORTUGAL @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL B
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07105
SIC Codes	4581
SIC Descriptions	AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:59:24
Recorded On	01-MAR-2000 00:00:00

Location	40.69587, -74.18096
Distance to site	1525 ft / 0.29 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110009114591
EPA Identifier	110009114591
Primary Name	CZECH AIRLINES @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL B
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4512
SIC Descriptions	AIR TRANSPORTATION, SCHEDULED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 15:03:02
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.69623, -74.18092
Distance to site	1637 ft / 0.31 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032085516
EPA Identifier	110032085516
Primary Name	WIGGINS AIRWAYS INC @ NEWARK LIBERTY INTNL AIRPORT
Address	TOWER RD
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4731
SIC Descriptions	ARRANGEMENT OF TRANSPORTATION OF FREIGHT AND CARGO
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:39:03
Recorded On	03-NOV-2007 17:13:34

Location	40.69638, -74.18834
Distance to site	1788 ft / 0.34 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031737280
EPA Identifier	110031737280
Primary Name	SQUARE INDUSTRIES
Address	362 384 CARNEGIE AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07109
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	30-DEC-2014 10:51:23
Recorded On	02-NOV-2007 18:48:39

NJ Environmental Management System

Location	40.69154, -74.19112
Distance to site	1919 ft / 0.36 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029445401
EPA Identifier	110029445401
Primary Name	COASTAL OIL NY INC
Address	200 RT 1
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:02:07
Recorded On	26-APR-2007 15:11:41

Location	40.68907, -74.17876
Distance to site	1994 ft / 0.38 mi SE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040308306
EPA Identifier	110040308306
Primary Name	PORT AUTH NY/NJ @ NEWARK LIBERTY INTNL AIRPPOINT
Address	BLDG 42
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4581
SIC Descriptions	AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 23:08:50
Recorded On	17-JAN-2010 23:28:56

NJ Environmental Management System

Location	40.69257, -74.17668
Distance to site	2111 ft / 0.4 mi E
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110014471026
EPA Identifier	110014471026
Primary Name	TRANS STATES AIRLINES
Address	TERMINAL A
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4512, 4581
SIC Descriptions	AIR TRANSPORTATION, SCHEDULED, AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	03-JUN-2011 16:26:27
Recorded On	10-JUL-2003 17:13:47

Location	40.69257, -74.17668
Distance to site	2111 ft / 0.4 mi E
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110034121037
EPA Identifier	110034121037
Primary Name	HUNTLEIGH USA CORP @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL C C1 OFFICE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4581
SIC Descriptions	AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:51:14
Recorded On	07-APR-2008 12:58:11

NJ Environmental Management System

Location 40.69257, -74.17668
Distance to site 2111 ft / 0.4 mi E
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110009114458
EPA Identifier 110009114458
Primary Name AIR CANADA @ NEWARK LIBERTY INTNL AIRPORT
Address TERMINAL A
City NEWARK
County ESSEX
State NJ
Zipcode 07114
SIC Codes 4512
SIC Descriptions AIR TRANSPORTATION, SCHEDULED
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 09-MAR-2012 06:18:58
Recorded On 01-MAR-2000 00:00:00

Location 40.69257, -74.17668
Distance to site 2111 ft / 0.4 mi E
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110037355493
EPA Identifier 110037355493
Primary Name ALTIMATE AIRCRAFT APPERANCE @ NEWARK LIBERTY INTNL AIRPORT
Address TERMINAL C GATE 5
City NEWARK AIRPORT
County ESSEX
State NJ
Zipcode 07114
SIC Codes 1799
SIC Descriptions SPECIAL TRADE CONTRACTORS, NOT ELSEWHERE CLASSIFIED
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:50:38
Recorded On 09-DEC-2008 13:45:41

NJ Environmental Management System

Location	40.69257, -74.17668
Distance to site	2111 ft / 0.4 mi E
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031912287
EPA Identifier	110031912287
Primary Name	TWA AIRLINES INC @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL A
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4512
SIC Descriptions	AIR TRANSPORTATION, SCHEDULED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 17:18:21
Recorded On	03-NOV-2007 10:48:02

Location	40.69257, -74.17668
Distance to site	2111 ft / 0.4 mi E
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029470123
EPA Identifier	110029470123
Primary Name	CONTINENTAL AIRLINES INC @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL A
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:06:07
Recorded On	26-APR-2007 19:07:45

NJ Environmental Management System

Location	40.69257, -74.17668
Distance to site	2111 ft / 0.4 mi E
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110015136388
EPA Identifier	110015136388
Primary Name	SOUTHWEST AIRLINES @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL A
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4512
SIC Descriptions	AIR TRANSPORTATION, SCHEDULED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	21-OCT-2015 11:32:44
Recorded On	14-JUL-2003 10:24:05

Location	40.68987, -74.17713
Distance to site	2214 ft / 0.42 mi E
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110007930427
EPA Identifier	110007930427
Primary Name	DELTA AIRLINES
Address	67 TERMINAL B BLDG 339
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-3787
NAICS Codes	481111
SIC Codes	4512
SIC Descriptions	AIR TRANSPORTATION, SCHEDULED
Programs	NJ-NJEMS, NPDES, RCRAINFO
Program Interests	ICIS-NPDES NON-MAJOR, SQG, STATE MASTER
Updated On	05-JUL-2016 10:05:43
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	SCHEDULED PASSENGER AIR TRANSPORTATION.

NJ Environmental Management System

Location 40.69056, -74.19202
Distance to site 2255 ft / 0.43 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014620561
EPA Identifier 110014620561
Primary Name DOLLAR RENT A CAR
Address 162 RT 1
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07199
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 26-JAN-2015 08:52:13
Recorded On 10-JUL-2003 21:30:45

Location 40.69015, -74.19194
Distance to site 2286 ft / 0.43 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004197057
EPA Identifier 110004197057
Primary Name VALUE GASOLINE STATION
Address 136 CARNEGIE ST
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS, RCRAINFO
Program Interests STATE MASTER, UNSPECIFIED UNIVERSE
Updated On 09-AUG-2010 09:00:56
Recorded On 01-MAR-2000 00:00:00

Location 40.68648, -74.18829
Distance to site 2476 ft / 0.47 mi SW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031833372
EPA Identifier 110031833372
Primary Name BOMBARDIER TRANSPORTATION
Address 60 EARHART DR
City NEWARK AIRPORT
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:43:00
Recorded On 03-NOV-2007 06:24:19

NJ Environmental Management System

Location	40.68916, -74.1925
Distance to site	2583 ft / 0.49 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029584983
EPA Identifier	110029584983
Primary Name	MANNKRAFT CORP
Address	1000 RT 1
City	NEW JERSEY
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	322211
SIC Codes	2649, 2653, 2676, 3061
SIC Descriptions	CORRUGATED AND SOLID FIBER BOXES, MOLDED, EXTRUDED, AND LATHE-CUT MECHANICAL RUBBER GOODS, SANITARY PAPER PRODUCTS
Programs	AIR, AIRS/AFS, NCDB, NJ-NJEMS, RCRAINFO
Program Interests	AIR SYNTHETIC MINOR, COMPLIANCE ACTIVITY, STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	09-JAN-2015 17:31:24
Recorded On	03-MAY-2007 01:58:16
NAICS Descriptions	CORRUGATED AND SOLID FIBER BOX MANUFACTURING.

Location	40.68466, -74.18471
Distance to site	2882 ft / 0.55 mi S
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110045391795
EPA Identifier	110045391795
Primary Name	PORT AUTH NY/NJ TERMINAL A REDEVELOPMENT PROGRAM @ NEWARK LIBERTY INTNL AIRPORT
Address	MCCLELLAN ST
City	NEWARK AIRPORT
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	30-DEC-2014 00:57:09
Recorded On	11-APR-2012 13:41:54

NJ Environmental Management System

Location	40.70049, -74.18614
Distance to site	2940 ft / 0.56 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032007012
EPA Identifier	110032007012
Primary Name	RITEWAY AIRPORT PARKING
Address	484 512 CARNEGIE AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	20-NOV-2014 07:45:50
Recorded On	03-NOV-2007 14:56:44

Location	40.7, -74.1894
Distance to site	3062 ft / 0.58 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029394484
EPA Identifier	110029394484
Primary Name	NJDOT BUREAU OF FACILITIES PLANNING & ENGINEERING
Address	RT 1/9 & HAYNES AVE
City	NEWARK CITY
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:03:07
Recorded On	26-APR-2007 04:53:22

NJ Environmental Management System

Location	40.69363, -74.19592
Distance to site	3235 ft / 0.61 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000581816
EPA Identifier	110000581816
Primary Name	ANHEUSER-BUSCH - NEWARK BREWERY
Address	200 US-1
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
NAICS Codes	312120
SIC Codes	2082
SIC Descriptions	MALT BEVERAGES
Programs	AIR, AIRS/AFS, BR, CEDRI, E-GGRT, EIA-860, EIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MAJOR, CESQG, COMPLIANCE ACTIVITY, COMPLIANCE AND EMISSIONS REPORTING, ELECTRIC GENERATOR, GREENHOUSE GAS REPORTER, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On	11-JAN-2016 16:08:20
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	BREWERIES.

Location	40.68651, -74.19308
Distance to site	3281 ft / 0.62 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031900520
EPA Identifier	110031900520
Primary Name	CINGULAR WIRELESS @ NEWARK LIBERTY INTNL AIRPORT
Address	1170 SPRING ST
City	ELIZABETH CITY
County	UNION
State	NJ
Zipcode	07201
SIC Codes	4812
SIC Descriptions	RADIOTELEPHONE COMMUNICATIONS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:44:29
Recorded On	03-NOV-2007 10:11:14

NJ Environmental Management System

Location	40.68651, -74.19308
Distance to site	3281 ft / 0.62 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110015215621
EPA Identifier	110015215621
Primary Name	HILTON HOTEL @ NEWARK AIRPORT
Address	1170 SPRING ST
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
NAICS Codes	721110
SIC Codes	7011
SIC Descriptions	HOTELS AND MOTELS
Programs	AIR, AIRS/AFS, NJ-NJEMS
Program Interests	AIR SYNTHETIC MINOR, STATE MASTER
Updated On	09-JAN-2015 19:31:38
Recorded On	14-JUL-2003 14:38:37
NAICS Descriptions	HOTELS (EXCEPT CASINO HOTELS) AND MOTELS.

Location	40.7007, -74.18991
Distance to site	3352 ft / 0.63 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014485039
EPA Identifier	110014485039
Primary Name	CITY CEMETERY
Address	24 74 BESSEMER ST
City	NEWARK CITY
County	ESSEX
State	NJ
Zipcode	07105
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	30-DEC-2014 09:45:53
Recorded On	10-JUL-2003 17:37:43

NJ Environmental Management System

Location 40.69153, -74.19643
Distance to site 3375 ft / 0.64 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000872280
EPA Identifier 110000872280
Primary Name PENICK CORP
Address 158 MOUNT OLIVE AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-2114
NAICS Codes 325188, 325192, 325411, 325412
SIC Codes 2833, 2834, 2869
SIC Descriptions INDUSTRIAL ORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED, MEDICINAL CHEMICALS AND BOTANICAL PRODUCTS, PHARMACEUTICAL PREPARATIONS
Programs BR, EIS, ICIS, NJ-NJEMS, RCRAINFO, TRIS
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, OTHER HAZARDOUS WASTE ACTIVITIES, SQG, STATE MASTER, TRI REPORTER
Updated On 31-DEC-2015 12:00:35
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING., CYCLIC CRUDE AND INTERMEDIATE MANUFACTURING., MEDICINAL AND BOTANICAL MANUFACTURING., PHARMACEUTICAL PREPARATION MANUFACTURING.

Location 40.70204, -74.18758
Distance to site 3578 ft / 0.68 mi N
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031891308
EPA Identifier 110031891308
Primary Name UNITED AIRLINES FLIGHT KITCHEN
Address 146 HAYNES AVE
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07199
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:39:04
Recorded On 03-NOV-2007 09:43:14

NJ Environmental Management System

Location	40.70202, -74.1881
Distance to site	3610 ft / 0.68 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029591635
EPA Identifier	110029591635
Primary Name	FAIRFIELD INN & SUITES
Address	618 650 HAYNES BLVD
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07199
SIC Codes	7011
SIC Descriptions	HOTELS AND MOTELS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	24-FEB-2014 08:53:27
Recorded On	03-MAY-2007 04:44:44

Location	40.70202, -74.1881
Distance to site	3610 ft / 0.68 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030623724
EPA Identifier	110030623724
Primary Name	MARRIOTT SPRINGHILL SUITES
Address	652 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	7011
SIC Descriptions	HOTELS AND MOTELS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:21:55
Recorded On	10-JUL-2007 15:22:51

NJ Environmental Management System

Location	40.70202, -74.1881
Distance to site	3610 ft / 0.68 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029348597
EPA Identifier	110029348597
Primary Name	WHC FIVE REAL ESTATE
Address	562 584 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:58:24
Recorded On	25-APR-2007 17:02:22

Location	40.70202, -74.1881
Distance to site	3610 ft / 0.68 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110056058064
EPA Identifier	110056058064
Primary Name	HEMISPHERE INTERNATIONAL AIRPORT PARKING
Address	270 286 HAYNES AVE
City	NEWARK CITY
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	22-OCT-2013 10:24:52

Location	40.70202, -74.1881
Distance to site	3610 ft / 0.68 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030802889
EPA Identifier	110030802889
Primary Name	HAYNES AVENUE AVISTAR
Address	498 512 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07104
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:31:03
Recorded On	10-AUG-2007 09:42:04

NJ Environmental Management System

Location 40.70202, -74.1881
Distance to site 3610 ft / 0.68 mi N
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110056085748
EPA Identifier 110056085748
Primary Name PATEL MINAXI U
Address 248 286 HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 22-OCT-2013 10:59:46

Location 40.70202, -74.1881
Distance to site 3610 ft / 0.68 mi N
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110015090827
EPA Identifier 110015090827
Primary Name ALAMO RENT A CAR INC
Address 294 HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07105
SIC Codes 3994
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 15:01:44
Recorded On 11-JUL-2003 15:46:59

Location 40.70201, -74.18823
Distance to site 3618 ft / 0.69 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012189522
EPA Identifier 110012189522
Primary Name MAZZOCCHI WRECKING
Address 146-246 HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS, RCRAINFO
Program Interests STATE MASTER, UNSPECIFIED UNIVERSE
Updated On 11-JAN-2011 19:24:57
Recorded On 01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.70194, -74.18959
Distance to site	3724 ft / 0.71 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000319673
EPA Identifier	110000319673
Primary Name	NEW JERSEY GALVANIZING & TINNING WORKS
Address	139 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	331511, 331512, 332812
SIC Codes	3479
SIC Descriptions	COATING, ENGRAVING, AND ALLIED SERVICES, NOT ELSEWHERE CLASSIFIED
Programs	AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, NPDES, RCRAINFO, TRIS
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, LQG, STATE MASTER, TRI REPORTER
Updated On	08-JUN-2016 10:08:15
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	IRON FOUNDRIES., METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS., STEEL INVESTMENT FOUNDRIES.

Location	40.68482, -74.19331
Distance to site	3765 ft / 0.71 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029950756
EPA Identifier	110029950756
Primary Name	HAMPTON INN
Address	1128 1138 RT 1/9
City	ELIZABETH CITY
County	UNION
State	NJ
Zipcode	07206
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	10-MAY-2011 19:29:00
Recorded On	11-MAY-2007 20:35:42

NJ Environmental Management System

Location	40.68289, -74.18946
Distance to site	3803 ft / 0.72 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110044913635
EPA Identifier	110044913635
Primary Name	UNITED PARCEL SERVICE @ NEWARK LIBERTY INTNL AIRPORT
Address	350 EARHART DR
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	492110
SIC Codes	4215, 4513
SIC Descriptions	AIR COURIER SERVICES, COURIER SERVICES, EXCEPT BY AIR
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	04-FEB-2015 10:28:26
Recorded On	29-FEB-2012 13:04:12
NAICS Descriptions	COURIERS.

Location	40.70189, -74.19054
Distance to site	3817 ft / 0.72 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110001531192
EPA Identifier	110001531192
Primary Name	BESSEMER PROCESSING CO INC
Address	133 HAYNES AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	332439
SIC Codes	3412, 7699
SIC Descriptions	METAL SHIPPING BARRELS, DRUMS, KEGS, AND PAILS, REPAIR SHOPS AND RELATED SERVICES, NOT ELSEWHERE CLASSIFIED
Programs	NJ-NJEMS, RCRAINFO, TRIS
Program Interests	STATE MASTER, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On	31-DEC-2015 10:39:12
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	OTHER METAL CONTAINER MANUFACTURING.

NJ Environmental Management System

Location 40.6982, -74.1726
Distance to site 3840 ft / 0.73 mi NE
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030530646
EPA Identifier 110030530646
Primary Name ALAMO RENT A CAR INC #254
Address RT 1/9 S
City NEWARK
County ESSEX
State NJ
Zipcode 07114
SIC Codes 7514
SIC Descriptions PASSENGER CAR RENTAL
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 14:28:34
Recorded On 11-JUN-2007 15:42:30

Location 40.70041, -74.19357
Distance to site 3843 ft / 0.73 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110013321994
EPA Identifier 110013321994
Primary Name CDI DISPERSIONS @ HAYNES MGNT PROPERTY
Address 27 HAYNS AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1313
NAICS Codes 325100, 325131, 325182, 325510
SIC Codes 2816, 2831, 2851, 5169
SIC Descriptions CHEMICALS AND ALLIED PRODUCTS, NOT ELSEWHERE CLASSIFIED, INORGANIC PIGMENTS, PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs AIR, AIRS/AFS, BR, EIS, NCDB, NJ-NJEMS, RCRAINFO, TRIS
Program Interests AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, CESQG, COMPLIANCE ACTIVITY, HAZARDOUS WASTE BIENNIAL REPORTER, STATE MASTER, TRI REPORTER
Updated On 07-OCT-2016 17:59:28
Recorded On 07-NOV-2002 17:10:36
NAICS Descriptions CARBON BLACK MANUFACTURING., INORGANIC DYE AND PIGMENT MANUFACTURING., PAINT AND COATING MANUFACTURING.

NJ Environmental Management System

Location 40.68268, -74.18948
Distance to site 3877 ft / 0.73 mi SW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110067145690
EPA Identifier 110067145690
Primary Name CONTI ENTERPRISE @ NEWARK AIRPORT
Address 345 EARHART DR
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 05-JAN-2016 13:08:03

Location 40.68776, -74.19704
Distance to site 3932 ft / 0.74 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029390576
EPA Identifier 110029390576
Primary Name AMTRAK CORP SUBSTATION #40
Address MCCLELLAN ST & MT OLIVET ST
City NEWARK
County ESSEX
State NJ
Zipcode 07114
SIC Codes 4813
SIC Descriptions TELEPHONE COMMUNICATIONS, EXCEPT RADIOTELEPHONE
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 19:01:47
Recorded On 26-APR-2007 03:36:09

Location 40.68407, -74.19314
Distance to site 3944 ft / 0.75 mi SW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110063591288
EPA Identifier 110063591288
Primary Name BETTAWAY MVA
Address 1000 SPRING ST
City ELIZABETH CITY
County UNION
State NJ
Zipcode 07201
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 04-FEB-2015 10:36:12

NJ Environmental Management System

Location	40.68407, -74.19314
Distance to site	3944 ft / 0.75 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110030572486
EPA Identifier	110030572486
Primary Name	RENAISSANCE NEWARK AIRPORT HOTEL
Address	1000 SPRING ST
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
NAICS Codes	721110
SIC Codes	7011
SIC Descriptions	HOTELS AND MOTELS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:12:36
Recorded On	10-JUL-2007 12:59:00
NAICS Descriptions	HOTELS (EXCEPT CASINO HOTELS) AND MOTELS.

Location	40.68407, -74.19314
Distance to site	3944 ft / 0.75 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110031752770
EPA Identifier	110031752770
Primary Name	STAGERLEE REAL ESTATE
Address	1000 SPRING ST
City	ELIZABETH CITY
County	UNION
State	NJ
Zipcode	07201
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 09:01:12
Recorded On	02-NOV-2007 20:43:04

NJ Environmental Management System

Location 40.69065, -74.19836
Distance to site 3948 ft / 0.75 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031981737
EPA Identifier 110031981737
Primary Name AMTRAK CORP SUBSTATION #40
Address MT OLIVET AVE & MCCLELLAN ST
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07101
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 17:04:58
Recorded On 03-NOV-2007 14:05:35

Location 40.70184, -74.19172
Distance to site 3959 ft / 0.75 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110046115182
EPA Identifier 110046115182
Primary Name HARTZ MOUNTAIN INDUSTRIES
Address 86 144 HAYNES AVE
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 24-FEB-2014 08:52:31
Recorded On 03-JUL-2012 16:13:20

Location 40.70184, -74.19172
Distance to site 3959 ft / 0.75 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110064321354
EPA Identifier 110064321354
Primary Name WAVERLY YARDS
Address 86 144 HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07199
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 10-MAY-2015 07:50:44

NJ Environmental Management System

Location 40.7018, -74.19205
Distance to site 3997 ft / 0.76 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031646315
EPA Identifier 110031646315
Primary Name ROUTE 1/9 & HAYNES AVENUE BRIDGES
Address RT 1/9 & HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07111
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:39:46
Recorded On 02-NOV-2007 13:58:00

Location 40.7018, -74.19227
Distance to site 4029 ft / 0.76 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031930132
EPA Identifier 110031930132
Primary Name HAYNES AVENUE DUMPING
Address HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07112
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 12-OCT-2012 09:24:49
Recorded On 03-NOV-2007 11:48:23

Location 40.7018, -74.19227
Distance to site 4029 ft / 0.76 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040267449
EPA Identifier 110040267449
Primary Name NJDOT BRIDGE PAINTING
Address HAYNES AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS, RCRAINFO
Program Interests LQG, STATE MASTER
Updated On 12-FEB-2014 17:34:28
Recorded On 17-JAN-2010 05:58:22

NJ Environmental Management System

Location	40.70316, -74.17959
Distance to site	4085 ft / 0.77 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110004197967
EPA Identifier	110004197967
Primary Name	WASTE MANAGEMENT INC AVE A TRANSFER & RECYCLING CENTER
Address	100 AVE A
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-2436
SIC Codes	4212, 5014
SIC Descriptions	LOCAL TRUCKING WITHOUT STORAGE, TIRES AND TUBES
Programs	AIR, NJ-NJEMS, NPDES, RCRAINFO
Program Interests	AIR SYNTHETIC MINOR, ICIS-NPDES NON-MAJOR, STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	11-JAN-2016 12:55:08
Recorded On	01-MAR-2000 00:00:00

Location	40.69174, -74.19912
Distance to site	4108 ft / 0.78 mi W
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110015004975
EPA Identifier	110015004975
Primary Name	ASSOCIATED HUMANE SOCIETIES
Address	124 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	0279, 0752
SIC Descriptions	ANIMAL SPECIALTIES, NOT ELSEWHERE CLASSIFIED, ANIMAL SPECIALTY SERVICES, EXCEPT VETERINARY
Programs	AIR, AIRS/AFS, NJ-NJEMS
Program Interests	AIR MINOR, STATE MASTER
Updated On	09-JAN-2015 18:17:19
Recorded On	11-JUL-2003 11:55:30

NJ Environmental Management System

Location	40.68746, -74.19761
Distance to site	4122 ft / 0.78 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030593123
EPA Identifier	110030593123
Primary Name	BANTAM PRESS
Address	43 FLORAL AVE
City	NEW PROVIDENCE BORO
County	UNION
State	NJ
Zipcode	07114
SIC Codes	2759
SIC Descriptions	COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:16:33
Recorded On	10-JUL-2007 14:01:19

Location	40.68345, -74.19337
Distance to site	4161 ft / 0.79 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004214243
EPA Identifier	110004214243
Primary Name	KONICA USA @ HOLIDAY INN
Address	1000 SPRING STREET
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201-2113
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	09-AUG-2010 08:50:47
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location 40.70195, -74.19286
Distance to site 4166 ft / 0.79 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029004636
EPA Identifier 110029004636
Primary Name NJ TRANSIT AUTH NIA RAIL LINK
Address FENWICK ST
City NEWARK
County ESSEX
State NJ
Zipcode 07105
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:52:41
Recorded On 21-APR-2007 22:45:20

Location 40.70401, -74.184
Distance to site 4180 ft / 0.79 mi N
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110024070164
EPA Identifier 110024070164
Primary Name INTERNATIONAL WAY CORP
Address RT 1/9 & INTERNATIONAL WAY
City NEWARK
County ESSEX
State NJ
Zipcode 07102
Programs NJ-NJEMS, RCRAINFO
Program Interests STATE MASTER, UNSPECIFIED UNIVERSE
Updated On 10-MAY-2011 15:02:30
Recorded On 12-DEC-2005 12:39:24

Location 40.70416, -74.18431
Distance to site 4235 ft / 0.8 mi N
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029503035
EPA Identifier 110029503035
Primary Name GORDON ENVIRONMENTAL
Address INTERNATIONAL WAY
City NEWARK
County ESSEX
State NJ
Zipcode 07101
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 11-JAN-2011 14:16:46
Recorded On 27-APR-2007 06:49:14

NJ Environmental Management System

Location	40.70416, -74.18431
Distance to site	4235 ft / 0.8 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030729013
EPA Identifier	110030729013
Primary Name	HUB RECYCLING INC
Address	INTERNATIONAL WAY
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07199
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 10:36:18
Recorded On	11-JUL-2007 09:54:46

Location	40.69717, -74.19861
Distance to site	4300 ft / 0.81 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031975192
EPA Identifier	110031975192
Primary Name	ACE BRAKE EXCHANGE INC
Address	707 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	7539
SIC Descriptions	AUTOMOTIVE REPAIR SHOPS, NOT ELSEWHERE CLASSIFIED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	01-JUN-2012 09:26:30
Recorded On	03-NOV-2007 13:48:23

NJ Environmental Management System

Location	40.69711, -74.19865
Distance to site	4301 ft / 0.81 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030540751
EPA Identifier	110030540751
Primary Name	COOPER SPORTSWEAR MFG CO INC
Address	720 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:57:39
Recorded On	11-JUN-2007 16:12:40

Location	40.69753, -74.1984
Distance to site	4301 ft / 0.81 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029905592
EPA Identifier	110029905592
Primary Name	ATLANTIC BIAS PRODUCTS INC
Address	702 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2211
SIC Descriptions	BROADWOVEN FABRIC MILLS, COTTON
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	23-SEP-2014 04:43:48
Recorded On	11-MAY-2007 20:01:27

NJ Environmental Management System

Location	40.69774, -74.19827
Distance to site	4301 ft / 0.81 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031966763
EPA Identifier	110031966763
Primary Name	RADD MAINTENANCE & SUPPLY CO INC
Address	687 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 09:12:22
Recorded On	03-NOV-2007 13:27:45

Location	40.69774, -74.19827
Distance to site	4301 ft / 0.81 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032107967
EPA Identifier	110032107967
Primary Name	JERSEY WINDOW FACTORY
Address	687 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	3089
SIC Descriptions	PLASTICS PRODUCTS, NOT ELSEWHERE CLASSIFIED
Programs	ICIS, NJ-NJEMS
Program Interests	ENFORCEMENT/COMPLIANCE ACTIVITY, STATE MASTER
Updated On	05-MAR-2013 10:28:53
Recorded On	03-NOV-2007 17:53:14

NJ Environmental Management System

Location 40.69774, -74.19827
Distance to site 4301 ft / 0.81 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029269887
EPA Identifier 110029269887
Primary Name DWNANANT ROGER
Address 687 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07101
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:56:53
Recorded On 25-APR-2007 01:44:03

Location 40.69663, -74.19894
Distance to site 4311 ft / 0.82 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004158731
EPA Identifier 110004158731
Primary Name AMPCO PITTSBURGH CORP
Address 722 FRELINGHUYSEN AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1343
Programs NJ-NJEMS, RCRAINFO
Program Interests STATE MASTER, UNSPECIFIED UNIVERSE
Updated On 17-SEP-2010 03:23:49
Recorded On 01-MAR-2000 00:00:00

Location 40.69663, -74.19894
Distance to site 4311 ft / 0.82 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032011980
EPA Identifier 110032011980
Primary Name METAL TRANSPORTATION DIESEL SPILL
Address 722 FRELINGHUYSEN AVE
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-FEB-2012 12:04:11
Recorded On 03-NOV-2007 15:08:25

NJ Environmental Management System

Location	40.69651, -74.19901
Distance to site	4316 ft / 0.82 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004180430
EPA Identifier	110004180430
Primary Name	PAUSIN MFG CORP
Address	727 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	000332, 332322, 332618, 332999
SIC Codes	3444
SIC Descriptions	SHEET METALWORK
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	07-DEC-2010 01:34:42
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING., OTHER FABRICATED WIRE PRODUCT MANUFACTURING., SHEET METAL WORK MANUFACTURING.

Location	40.69651, -74.19901
Distance to site	4316 ft / 0.82 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110060230316
EPA Identifier	110060230316
Primary Name	FAMILY DOLLAR STORES OF NJ INC #7635
Address	727 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	071141332
NAICS Codes	045299
Programs	NJ-NJEMS, RCRAINFO
Program Interests	CESQG, STATE MASTER
Updated On	28-AUG-2014 14:28:40
Recorded On	22-JUL-2014 19:42:48

NJ Environmental Management System

Location	40.69864, -74.19769
Distance to site	4317 ft / 0.82 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004216303
EPA Identifier	110004216303
Primary Name	NJDEP DIV OF HAZ WASTE MGMT
Address	660 FRELINGHUYSEN AVE SECURITY
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	09-SEP-2015 13:04:51
Recorded On	01-MAR-2000 00:00:00

Location	40.69634, -74.1991
Distance to site	4318 ft / 0.82 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014991376
EPA Identifier	110014991376
Primary Name	ARAMARK UNIFORM & CAREER APPAREL INC
Address	740 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1343
SIC Codes	7218
SIC Descriptions	INDUSTRIAL LAUNDERERS
Programs	NJ-NJEMS, RCRAINFO
Program Interests	CESQG, STATE MASTER
Updated On	31-OCT-2014 04:08:18
Recorded On	11-JUL-2003 11:24:24

NJ Environmental Management System

Location 40.69853, -74.1978
Distance to site 4322 ft / 0.82 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031884067
EPA Identifier 110031884067
Primary Name DIVERSIFIED VACUUM SYSTEMS CO
Address 661 FRELINGHUYSEN AVE
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07105
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 12-OCT-2012 09:19:49
Recorded On 03-NOV-2007 09:15:55

Location 40.69861, -74.19775
Distance to site 4324 ft / 0.82 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110028918651
EPA Identifier 110028918651
Primary Name MONSANTO CO
Address 660 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:48:25
Recorded On 20-APR-2007 11:13:48

Location 40.69874, -74.19767
Distance to site 4331 ft / 0.82 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031902029
EPA Identifier 110031902029
Primary Name ADVANCE SERVICE SYSTEMS
Address 657 671 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07199
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:43:34
Recorded On 03-NOV-2007 10:17:00

NJ Environmental Management System

Location	40.69887, -74.19759
Distance to site	4338 ft / 0.82 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110028885302
EPA Identifier	110028885302
Primary Name	NJDEP BER REGION 1
Address	655 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-JAN-2011 12:09:17
Recorded On	20-APR-2007 07:02:09

Location	40.69887, -74.19759
Distance to site	4338 ft / 0.82 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032037613
EPA Identifier	110032037613
Primary Name	655 FRELINGHUYSEN AVENUE
Address	655 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07105
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 17:05:01
Recorded On	03-NOV-2007 15:54:17

NJ Environmental Management System

Location	40.69572, -74.19949
Distance to site	4354 ft / 0.82 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031957461
EPA Identifier	110031957461
Primary Name	LEGGETT & PLATT INC
Address	750 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	337910
SIC Codes	2515
SIC Descriptions	MATTRESSES, FOUNDATIONS, AND CONVERTIBLE BEDS
Programs	NJ-NJEMS, RCRAINFO
Program Interests	OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER
Updated On	23-SEP-2014 04:49:08
Recorded On	03-NOV-2007 12:59:12
NAICS Descriptions	MATTRESS MANUFACTURING.

Location	40.6992, -74.19739
Distance to site	4356 ft / 0.82 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032002384
EPA Identifier	110032002384
Primary Name	M&Z BELT CO INC
Address	640 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07199
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:44:40
Recorded On	03-NOV-2007 14:46:19

NJ Environmental Management System

Location	40.6992, -74.19739
Distance to site	4356 ft / 0.82 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031954838
EPA Identifier	110031954838
Primary Name	PERSONALITY HANDKERCHIEFS INC
Address	640 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	071141395
SIC Codes	5136
SIC Descriptions	MEN'S AND BOYS' CLOTHING AND FURNISHINGS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	01-FEB-2010 19:32:53
Recorded On	03-NOV-2007 12:54:19

Location	40.6992, -74.19739
Distance to site	4356 ft / 0.82 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110055050420
EPA Identifier	110055050420
Primary Name	FLYING FOOD GROUP
Address	640 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4900
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	15-FEB-2013 21:39:28

NJ Environmental Management System

Location	40.69927, -74.19735
Distance to site	4361 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032023085
EPA Identifier	110032023085
Primary Name	SANIDOWN FEATHER
Address	646 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	11-APR-2012 12:28:19
Recorded On	03-NOV-2007 15:30:21

Location	40.69927, -74.19735
Distance to site	4361 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031973504
EPA Identifier	110031973504
Primary Name	DOWNWORLD INC
Address	646 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 17:18:58
Recorded On	03-NOV-2007 13:43:15

NJ Environmental Management System

Location	40.69927, -74.19735
Distance to site	4361 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110046113282
EPA Identifier	110046113282
Primary Name	NEWARK STONE
Address	646 660 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	333120
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	03-JUL-2012 15:58:26
NAICS Descriptions	CONSTRUCTION MACHINERY MANUFACTURING.

Location	40.69927, -74.19735
Distance to site	4361 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110031831962
EPA Identifier	110031831962
Primary Name	SCIS AIR SECURITY CORP
Address	641 FRELINGHUYSEN AVE
City	NEWARK AIRPORT
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:43:42
Recorded On	03-NOV-2007 06:18:32

NJ Environmental Management System

Location	40.6885, -74.19918
Distance to site	4373 ft / 0.83 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032033635
EPA Identifier	110032033635
Primary Name	RUNIAK AVENUE SUBSTATION
Address	RUNIAK AVE MM 12
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07199
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:42:53
Recorded On	03-NOV-2007 15:48:06

Location	40.6885, -74.19918
Distance to site	4373 ft / 0.83 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029450635
EPA Identifier	110029450635
Primary Name	CONRAIL CORP
Address	MCCLELLAN ST & RUNIAK AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:04:16
Recorded On	26-APR-2007 16:07:30

NJ Environmental Management System

Location	40.6885, -74.19918
Distance to site	4373 ft / 0.83 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031921516
EPA Identifier	110031921516
Primary Name	C&D TRUCKING CO
Address	131 RUNIAK AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	7532
SIC Descriptions	TOP, BODY, AND UPHOLSTERY REPAIR SHOPS AND PAINT SHOPS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 17:18:39
Recorded On	03-NOV-2007 11:16:40

Location	40.69957, -74.19717
Distance to site	4383 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110043393351
EPA Identifier	110043393351
Primary Name	ANTONIO MOZZARELLA FACTORY
Address	631 FRELINGHUSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4952, 9994
SIC Descriptions	SEWERAGE SYSTEMS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	30-JUN-2014 14:42:11
Recorded On	11-APR-2011 13:30:12

NJ Environmental Management System

Location	40.69962, -74.19714
Distance to site	4386 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110024555328
EPA Identifier	110024555328
Primary Name	SWAN CHEMICAL
Address	634 FREYLINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	221118
Programs	NJ-NJEMS, RCRAINFO
Program Interests	LQG, STATE MASTER
Updated On	13-FEB-2014 09:10:13
Recorded On	26-APR-2006 19:49:15

Location	40.69962, -74.19714
Distance to site	4386 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031601933
EPA Identifier	110031601933
Primary Name	CORBET CHEMICALS INC
Address	634 FREYLINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	221118
SIC Codes	5169
SIC Descriptions	CHEMICALS AND ALLIED PRODUCTS, NOT ELSEWHERE CLASSIFIED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	04-APR-2012 13:08:48
Recorded On	02-NOV-2007 12:35:33

NJ Environmental Management System

Location	40.69962, -74.19714
Distance to site	4386 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032111266
EPA Identifier	110032111266
Primary Name	PRESIDENTIAL EXPRESS WAREHOUSING & DISTRIBUTION
Address	634 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4731
SIC Descriptions	ARRANGEMENT OF TRANSPORTATION OF FREIGHT AND CARGO
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:11:47
Recorded On	03-NOV-2007 17:57:41

Location	40.70166, -74.19467
Distance to site	4387 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110006855590
EPA Identifier	110006855590
Primary Name	PROTEX A COTE INC @ HAYNES MANAGEMENT
Address	27 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2851
SIC Descriptions	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs	NJ-NJEMS, RCRAINFO
Program Interests	LQG, STATE MASTER
Updated On	09-AUG-2010 08:40:32
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.69959, -74.19718
Distance to site	4390 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110022304923
EPA Identifier	110022304923
Primary Name	TYSON FOODS INC
Address	631 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	311611
SIC Codes	2053
SIC Descriptions	FROZEN BAKERY PRODUCTS, EXCEPT BREAD
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	01-JUN-2012 09:16:53
Recorded On	27-MAY-2005 14:57:31
NAICS Descriptions	ANIMAL (EXCEPT POULTRY) SLAUGHTERING.

Location	40.69521, -74.19979
Distance to site	4391 ft / 0.83 mi W
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110014820257
EPA Identifier	110014820257
Primary Name	CITIBAG
Address	768 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2671, 2673
SIC Descriptions	PACKAGING PAPER AND PLASTICS FILM, COATED AND LAMINATED, PLASTICS, FOIL, AND COATED PAPER BAGS
Programs	AIR, AIRS/AFS, NJ-NJEMS
Program Interests	AIR MINOR, STATE MASTER
Updated On	09-JAN-2015 18:42:18
Recorded On	11-JUL-2003 04:11:36

NJ Environmental Management System

Location	40.69521, -74.19979
Distance to site	4391 ft / 0.83 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031940345
EPA Identifier	110031940345
Primary Name	FEDER TRADING CO INC
Address	768 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	5199
SIC Descriptions	NONDURABLE GOODS, NOT ELSEWHERE CLASSIFIED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:43:57
Recorded On	03-NOV-2007 12:20:56

Location	40.68585, -74.19753
Distance to site	4400 ft / 0.83 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031590687
EPA Identifier	110031590687
Primary Name	ROSEMOUNT MEMORIAL PARK ASSOC
Address	1109 NECK LN
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
SIC Codes	7261
SIC Descriptions	FUNERAL SERVICE AND CREMATORIES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	03-JUN-2011 16:36:46
Recorded On	02-NOV-2007 12:17:05

NJ Environmental Management System

Location	40.69511, -74.19985
Distance to site	4400 ft / 0.83 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030726472
EPA Identifier	110030726472
Primary Name	NEWARK CITY HOUSING AUTH 12 UNIT LWRSE SETH BOYDEN
Address	741 811 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07103
SIC Codes	3999
SIC Descriptions	MANUFACTURING INDUSTRIES, NOT ELSEWHERE CLASSIFIED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	22-DEC-2015 13:43:08
Recorded On	11-JUL-2007 09:49:27

Location	40.70273, -74.19286
Distance to site	4403 ft / 0.83 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040397665
EPA Identifier	110040397665
Primary Name	KINTOCK GROUP
Address	37 47 LEGAL ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	8361, 9223
SIC Descriptions	CORRECTIONAL INSTITUTIONS, RESIDENTIAL CARE
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 09:18:42
Recorded On	08-FEB-2010 14:07:21

NJ Environmental Management System

Location	40.69994, -74.19692
Distance to site	4409 ft / 0.84 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029477563
EPA Identifier	110029477563
Primary Name	GESHEM REALTY
Address	620 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	09-AUG-2010 09:09:51
Recorded On	26-APR-2007 21:40:26

Location	40.69994, -74.19692
Distance to site	4409 ft / 0.84 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004252610
EPA Identifier	110004252610
Primary Name	620 AIRPORT ASSOC
Address	620 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2759
SIC Descriptions	COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	01-JUN-2012 09:27:23
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location 40.69993, -74.19695
Distance to site 4413 ft / 0.84 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029896879
EPA Identifier 110029896879
Primary Name KOHLER JOHN DEER #150
Address 623 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07105
SIC Codes 3999
SIC Descriptions MANUFACTURING INDUSTRIES, NOT ELSEWHERE CLASSIFIED
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 14:37:52
Recorded On 11-MAY-2007 19:54:50

Location 40.69848, -74.19824
Distance to site 4419 ft / 0.84 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110001530987
EPA Identifier 110001530987
Primary Name WHITE CHEMICAL CORPORATION
Address 660 FRELINGHUYSEN AVENUE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-1324
NAICS Codes 325000, 325192, 325613, 325998
SIC Codes 2865, 2869
SIC Descriptions CYCLIC ORGANIC CRUDES AND INTERMEDIATES, AND ORGANIC DYES AND PIGMENTS, INDUSTRIAL ORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED
Programs AIR, AIRS/AFS, ICIS, NCDB, NJ-NJEMS, RCRAINFO, SEMS, TRIS
Program Interests AIR MINOR, COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, STATE MASTER, SUPERFUND NPL, TRI REPORTER, UNSPECIFIED UNIVERSE
Updated On 26-FEB-2016 15:01:31
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING., CYCLIC CRUDE AND INTERMEDIATE MANUFACTURING., SURFACE ACTIVE AGENT MANUFACTURING.

NJ Environmental Management System

Location 40.70004, -74.19688
Distance to site 4421 ft / 0.84 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014654294
EPA Identifier 110014654294
Primary Name AT&T COMMUNICATIONS INC
Address 617 623 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
SIC Codes 3999, 4813
SIC Descriptions MANUFACTURING INDUSTRIES, NOT ELSEWHERE CLASSIFIED, TELEPHONE COMMUNICATIONS, EXCEPT RADIOTELEPHONE
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 14:27:59
Recorded On 10-JUL-2003 22:31:59

Location 40.70014, -74.1968
Distance to site 4428 ft / 0.84 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029333308
EPA Identifier 110029333308
Primary Name US TRANSPORTATION SECURITY ADMIN
Address 614 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
NAICS Codes 048819
SIC Codes 4811
Programs BR, FFDOCKET, NJ-NJEMS, RCRAINFO
Program Interests FEDERAL FACILITY HAZARDOUS WASTE DOCKET, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, STATE MASTER
Updated On 13-JUL-2016 09:17:18
Recorded On 25-APR-2007 15:04:01

NJ Environmental Management System

Location	40.69476, -74.20006
Distance to site	4431 ft / 0.84 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110058203251
EPA Identifier	110058203251
Primary Name	USS CORPORATION
Address	780 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2759, 3567
SIC Descriptions	COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED, INDUSTRIAL PROCESS FURNACES AND OVENS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	07-NOV-2014 22:04:41
Recorded On	20-MAR-2014 00:57:29

Location	40.70232, -74.19391
Distance to site	4443 ft / 0.84 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040397647
EPA Identifier	110040397647
Primary Name	KINTOCK GROUP
Address	50 FENWICK ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	8361, 9223
SIC Descriptions	CORRECTIONAL INSTITUTIONS, RESIDENTIAL CARE
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 09:18:42
Recorded On	08-FEB-2010 14:07:11

NJ Environmental Management System

Location 40.70021, -74.19682
Distance to site 4446 ft / 0.84 mi NW
Info URL http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110004201159
EPA Identifier 110004201159
Primary Name D & V AUTO BODY
Address 609 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
NAICS Codes 811112
SIC Codes 7531, 7532
SIC Descriptions TOP, BODY, AND UPHOLSTERY REPAIR SHOPS AND PAINT SHOPS
Programs NJ-NJEMS, RCRAINFO
Program Interests STATE MASTER, UNSPECIFIED UNIVERSE
Updated On 04-DEC-2014 12:57:24
Recorded On 01-MAR-2000 00:00:00
NAICS Descriptions AUTOMOTIVE EXHAUST SYSTEM REPAIR.

Location 40.70028, -74.19674
Distance to site 4446 ft / 0.84 mi NW
Info URL http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110031860010
EPA Identifier 110031860010
Primary Name ALL FORM TUBING INC
Address 620 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
SIC Codes 3356
SIC Descriptions ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:38:01
Recorded On 03-NOV-2007 07:44:06

NJ Environmental Management System

Location 40.70471, -74.18551
Distance to site 4448 ft / 0.84 mi N
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032065360
EPA Identifier 110032065360
Primary Name BEST WESTERN CARBON MONOXIDE RELEASE
Address 101 INTERNATIONAL WAY
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07114-2314
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 30-DEC-2008 13:11:26
Recorded On 03-NOV-2007 16:33:38

Location 40.70044, -74.19665
Distance to site 4463 ft / 0.85 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110056042731
EPA Identifier 110056042731
Primary Name DLL
Address 609 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 22-OCT-2013 10:00:55

Location 40.70056, -74.19657
Distance to site 4477 ft / 0.85 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110045359303
EPA Identifier 110045359303
Primary Name EXPRESS WASTE SERVICES
Address 614 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 09-APR-2012 16:17:31

NJ Environmental Management System

Location 40.70056, -74.19657
Distance to site 4477 ft / 0.85 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014656880
EPA Identifier 110014656880
Primary Name SCHLUMBERGER INDUSTRIES WESTON DIV
Address 614 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 14:27:00
Recorded On 10-JUL-2003 22:36:34

Location 40.70056, -74.19657
Distance to site 4477 ft / 0.85 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040264674
EPA Identifier 110040264674
Primary Name OMNI SERV
Address 614 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 12-OCT-2012 09:11:05
Recorded On 17-JAN-2010 05:28:29

Location 40.69423, -74.20038
Distance to site 4488 ft / 0.85 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030534606
EPA Identifier 110030534606
Primary Name TPC METALS INC
Address 798 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 12-OCT-2012 08:57:49
Recorded On 11-JUN-2007 15:59:56

NJ Environmental Management System

Location	40.6923, -74.20057
Distance to site	4500 ft / 0.85 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110037043204
EPA Identifier	110037043204
Primary Name	EVERGREEN RECYCLING SOLUTIONS
Address	110 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	221119
Programs	AIR, NJ-NJEMS
Program Interests	AIR MINOR, STATE MASTER
Updated On	08-FEB-2012 17:29:50
Recorded On	07-JUL-2008 09:49:47
NAICS Descriptions	OTHER ELECTRIC POWER GENERATION.

Location	40.6923, -74.20057
Distance to site	4500 ft / 0.85 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031882149
EPA Identifier	110031882149
Primary Name	MAC HEALTHCARE SERVICES INC
Address	110 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4953
SIC Descriptions	REFUSE SYSTEMS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:39:49
Recorded On	03-NOV-2007 09:04:19

NJ Environmental Management System

Location	40.70243, -74.19423
Distance to site	4530 ft / 0.86 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014933803
EPA Identifier	110014933803
Primary Name	ALLSTATES AIR CARGO INC
Address	35 FENWICK ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07106
SIC Codes	4731
SIC Descriptions	ARRANGEMENT OF TRANSPORTATION OF FREIGHT AND CARGO
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:50:24
Recorded On	11-JUL-2003 08:58:02

Location	40.70163, -74.19556
Distance to site	4544 ft / 0.86 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031898276
EPA Identifier	110031898276
Primary Name	CHAMPION CHAINS INC
Address	1 HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	3911
SIC Descriptions	JEWELRY, PRECIOUS METAL
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	01-JUN-2012 09:21:29
Recorded On	03-NOV-2007 10:04:37

NJ Environmental Management System

Location 40.69372, -74.20069
Distance to site 4552 ft / 0.86 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110028858608
EPA Identifier 110028858608
Primary Name NJDEP BER
Address 815 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114-2216
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 12-JAN-2011 10:49:16
Recorded On 20-APR-2007 05:19:03

Location 40.68794, -74.19961
Distance to site 4556 ft / 0.86 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110064479844
EPA Identifier 110064479844
Primary Name VENTURA LANDSCAPING
Address 19 GARIBALDI AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 06-JUL-2015 10:42:32

Location 40.69364, -74.20074
Distance to site 4562 ft / 0.86 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110044848476
EPA Identifier 110044848476
Primary Name RE TIRE
Address 822 850 FRELINGHUYSEN AVE
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 08-FEB-2012 18:01:21

NJ Environmental Management System

Location	40.6936, -74.20074
Distance to site	4563 ft / 0.86 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004262477
EPA Identifier	110004262477
Primary Name	UNI TRADE INC
Address	815 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	14-SEP-2010 07:49:19
Recorded On	01-MAR-2000 00:00:00

Location	40.69239, -74.20081
Distance to site	4567 ft / 0.86 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029357096
EPA Identifier	110029357096
Primary Name	CAL ARK TRUCKING INC
Address	99 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07105
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:02:35
Recorded On	25-APR-2007 17:44:26

NJ Environmental Management System

Location	40.68621, -74.19855
Distance to site	4571 ft / 0.87 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031750237
EPA Identifier	110031750237
Primary Name	SARADON DISPLAY INC
Address	1130 MADISON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
SIC Codes	2542, 3548
SIC Descriptions	ELECTRIC AND GAS WELDING AND SOLDERING EQUIPMENT, OFFICE AND STORE FIXTURES, PARTITIONS, SHELVING, AND LOCKERS, EXCEPT WOOD
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:32:13
Recorded On	02-NOV-2007 20:15:48

Location	40.69239, -74.20086
Distance to site	4579 ft / 0.87 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004232606
EPA Identifier	110004232606
Primary Name	BON ART INTERNATIONAL STUDIOS INC
Address	99 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2542, 3552
SIC Descriptions	OFFICE AND STORE FIXTURES, PARTITIONS, SHELVING, AND LOCKERS, EXCEPT WOOD, TEXTILE MACHINERY
Programs	NJ-NJEMS, RCRAINFO
Program Interests	CESQG, STATE MASTER
Updated On	08-OCT-2010 06:14:42
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.69342, -74.20087
Distance to site	4592 ft / 0.87 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031604976
EPA Identifier	110031604976
Primary Name	BESTWAY OCEAN EXPRESS TRANSPORT INC
Address	825 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4731
SIC Descriptions	ARRANGEMENT OF TRANSPORTATION OF FREIGHT AND CARGO
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	02-FEB-2010 18:38:56
Recorded On	02-NOV-2007 12:41:18

Location	40.70161, -74.19594
Distance to site	4612 ft / 0.87 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029401911
EPA Identifier	110029401911
Primary Name	BULKMATIC
Address	FRELINGHUYSEN AVE & HAYNES AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07105
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:02:29
Recorded On	26-APR-2007 06:24:25

NJ Environmental Management System

Location	40.69323, -74.20098
Distance to site	4619 ft / 0.87 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032066181
EPA Identifier	110032066181
Primary Name	SEAPORT METALS INC
Address	813 821 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	3312
SIC Descriptions	STEEL WORKS, BLAST FURNACES (INCLUDING COKE OVENS), AND ROLLING MILLS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	06-FEB-2010 18:56:12
Recorded On	03-NOV-2007 16:35:18

Location	40.6932, -74.20099
Distance to site	4621 ft / 0.88 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031904642
EPA Identifier	110031904642
Primary Name	SWILLINGER ISADORE
Address	831 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 08:52:59
Recorded On	03-NOV-2007 10:23:51

NJ Environmental Management System

Location 40.6843, -74.19698
Distance to site 4622 ft / 0.88 mi SW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031836191
EPA Identifier 110031836191
Primary Name MONROE GARDENS APARTMENTS
Address 1070 NECK LN
City ELIZABETH
County UNION
State NJ
Zipcode 07202
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 12-OCT-2012 09:59:47
Recorded On 03-NOV-2007 06:31:23

Location 40.69315, -74.20102
Distance to site 4628 ft / 0.88 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110056038407
EPA Identifier 110056038407
Primary Name SANTANA TRUCK REPAIR CORP
Address 850 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 22-OCT-2013 09:55:03

Location 40.69315, -74.20102
Distance to site 4628 ft / 0.88 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004202309
EPA Identifier 110004202309
Primary Name COLORALL
Address 850 FRELINGHUYSEN AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS, RCRAINFO
Program Interests STATE MASTER, UNSPECIFIED UNIVERSE
Updated On 09-AUG-2010 08:57:51
Recorded On 01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.69315, -74.20102
Distance to site	4628 ft / 0.88 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032889453
EPA Identifier	110032889453
Primary Name	ELITE AUTO REPAIRS INC
Address	850 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 17:35:41
Recorded On	07-DEC-2007 15:08:41

Location	40.69315, -74.20102
Distance to site	4628 ft / 0.88 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032058813
EPA Identifier	110032058813
Primary Name	DEPAULA TRUCK
Address	850 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	7538
SIC Descriptions	GENERAL AUTOMOTIVE REPAIR SHOPS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:41:07
Recorded On	03-NOV-2007 16:21:26

NJ Environmental Management System

Location	40.68892, -74.20034
Distance to site	4630 ft / 0.88 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004253290
EPA Identifier	110004253290
Primary Name	CENTRAL LEWMAR PAPER CO
Address	60 MCCLELLAN ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	071142112
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	11-MAY-2011 11:23:45
Recorded On	01-MAR-2000 00:00:00

Location	40.70184, -74.19581
Distance to site	4647 ft / 0.88 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032049003
EPA Identifier	110032049003
Primary Name	PARKSIDE DIALYSIS CENTER
Address	580 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	621492
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	03-JUL-2012 14:37:37
Recorded On	03-NOV-2007 16:08:36
NAICS Descriptions	KIDNEY DIALYSIS CENTERS.

NJ Environmental Management System

Location	40.68719, -74.19956
Distance to site	4652 ft / 0.88 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032034457
EPA Identifier	110032034457
Primary Name	31 PERSHING AVENUE
Address	31 PERSHING AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 17:08:31
Recorded On	03-NOV-2007 15:49:40

Location	40.70261, -74.19474
Distance to site	4668 ft / 0.88 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031909406
EPA Identifier	110031909406
Primary Name	PSE&G WAVERLY SUBSTATION
Address	10 FENWICK ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
SIC Codes	4931
SIC Descriptions	ELECTRIC AND OTHER SERVICES COMBINED
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 08:55:17
Recorded On	03-NOV-2007 10:39:27

NJ Environmental Management System

Location	40.69286, -74.20119
Distance to site	4671 ft / 0.88 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030690394
EPA Identifier	110030690394
Primary Name	NEWARK CITY HOUSING AUTH SETH BOYDEN ELDERLY 2 21F
Address	839 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:33:15
Recorded On	11-JUL-2007 08:27:26

Location	40.69281, -74.20122
Distance to site	4679 ft / 0.89 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110045357298
EPA Identifier	110045357298
Primary Name	GVC CONTRACTORS
Address	810 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	9994
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	11-APR-2012 12:32:06
Recorded On	09-APR-2012 15:43:56

NJ Environmental Management System

Location	40.69281, -74.20122
Distance to site	4679 ft / 0.89 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012304719
EPA Identifier	110012304719
Primary Name	EAST COAST TRUCK PARTS
Address	810 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	5015
SIC Descriptions	MOTOR VEHICLE PARTS, USED
Programs	NJ-NJEMS, NPDES
Program Interests	ICIS-NPDES NON-MAJOR, STATE MASTER
Updated On	11-JAN-2016 19:12:46
Recorded On	01-MAR-2000 00:00:00

Location	40.68011, -74.18845
Distance to site	4682 ft / 0.89 mi S
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031819218
EPA Identifier	110031819218
Primary Name	BUCKEYE PIPELINE CO @ NEWARK LIBERTY INTNL AIRPORT
Address	NEWARK LIBERTY INTNL AIRPORT
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07208
SIC Codes	4613
SIC Descriptions	REFINED PETROLEUM PIPELINES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:59:43
Recorded On	03-NOV-2007 05:32:54

NJ Environmental Management System

Location	40.68011, -74.18845
Distance to site	4682 ft / 0.89 mi S
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110015149579
EPA Identifier	110015149579
Primary Name	AMERICA WEST AIRLINES INC @ NEWARK LIBERTY INTNL AIRPORT
Address	TERMINAL C
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07114
SIC Codes	4512, 4581
SIC Descriptions	AIR TRANSPORTATION, SCHEDULED, AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:59:57
Recorded On	14-JUL-2003 11:03:13

Location	40.70211, -74.19565
Distance to site	4690 ft / 0.89 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110032901411
EPA Identifier	110032901411
Primary Name	AMERICAN PEST MANAGEMENT INC
Address	558 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:51:43
Recorded On	07-DEC-2007 15:42:32

NJ Environmental Management System

Location	40.69268, -74.20129
Distance to site	4697 ft / 0.89 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031901226
EPA Identifier	110031901226
Primary Name	MAYER STEG
Address	850 FRELINGHUYSEN AVE
City	NEWARK CITY
County	ESSEX
State	NJ
Zipcode	07199
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:44:21
Recorded On	03-NOV-2007 10:13:50

Location	40.69945, -74.19876
Distance to site	4724 ft / 0.89 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032109368
EPA Identifier	110032109368
Primary Name	60 DAYTON STREET
Address	60 DAYTON ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:12:25
Recorded On	03-NOV-2007 17:55:32

NJ Environmental Management System

Location	40.704, -74.19229
Distance to site	4725 ft / 0.89 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014992437
EPA Identifier	110014992437
Primary Name	B&L OIL CO
Address	472 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	324199
SIC Codes	2992, 5093
SIC Descriptions	LUBRICATING OILS AND GREASES, SCRAP AND WASTE MATERIALS
Programs	ICIS, NJ-NJEMS, RCRAINFO
Program Interests	FORMAL ENFORCEMENT ACTION, OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER
Updated On	03-MAY-2015 10:07:04
Recorded On	11-JUL-2003 11:26:31
NAICS Descriptions	ALL OTHER PETROLEUM AND COAL PRODUCTS MANUFACTURING.

Location	40.69773, -74.19997
Distance to site	4726 ft / 0.9 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030686540
EPA Identifier	110030686540
Primary Name	NEWARK CITY HOUSING AUTH SETH BOYDEN ELDERLY
Address	27 FOSTER ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:58:14
Recorded On	10-JUL-2007 17:12:14

NJ Environmental Management System

Location	40.68903, -74.20075
Distance to site	4727 ft / 0.9 mi W
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110044839654
EPA Identifier	110044839654
Primary Name	DAMASCUS BAKERY INC
Address	60 MCCLELLAN ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	311812
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	08-FEB-2012 17:39:18
NAICS Descriptions	COMMERCIAL BAKERIES.

Location	40.70236, -74.19551
Distance to site	4733 ft / 0.9 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110029983490
EPA Identifier	110029983490
Primary Name	550 FRELINGHUYSEN AVE
Address	550 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07112
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:22:05
Recorded On	11-MAY-2007 21:02:07

NJ Environmental Management System

Location	40.70318, -74.19414
Distance to site	4735 ft / 0.9 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004260576
EPA Identifier	110004260576
Primary Name	METAL FINISH INC
Address	9 LEGAL ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	071141310
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	06-JUL-2015 10:20:46
Recorded On	01-MAR-2000 00:00:00

Location	40.68672, -74.19961
Distance to site	4738 ft / 0.9 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000802007
EPA Identifier	110000802007
Primary Name	PHARMACAPS
Address	1111 JEFFERSON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07207
NAICS Codes	325412
SIC Codes	2834
SIC Descriptions	PHARMACEUTICAL PREPARATIONS
Programs	AIR, AIRS/AFS, NCDB, NJ-NJEMS, RCRAINFO
Program Interests	AIR MINOR, COMPLIANCE ACTIVITY, STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	09-JAN-2015 14:44:29
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	PHARMACEUTICAL PREPARATION MANUFACTURING.

NJ Environmental Management System

Location 40.6986, -74.1995
Distance to site 4747 ft / 0.9 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031641784
EPA Identifier 110031641784
Primary Name 88 DAYTON STREET
Address 88 DAYTON ST
City NEWARK CITY
County ESSEX
State NJ
Zipcode 07042
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:39:53
Recorded On 02-NOV-2007 13:48:06

Location 40.6871, -74.19995
Distance to site 4764 ft / 0.9 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110034119013
EPA Identifier 110034119013
Primary Name COUNTRY CLUB TRANSPORTATION
Address 23 PERSHING AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07114
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 09:49:50
Recorded On 07-APR-2008 12:18:23

Location 40.68775, -74.20035
Distance to site 4771 ft / 0.9 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029292922
EPA Identifier 110029292922
Primary Name NJDEP BER
Address GARIBALDI AVE
City NEWARK
County ESSEX
State NJ
Zipcode 07101
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:56:12
Recorded On 25-APR-2007 06:46:53

NJ Environmental Management System

Location	40.70328, -74.19436
Distance to site	4800 ft / 0.91 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004157395
EPA Identifier	110004157395
Primary Name	KEYSTONE AUTOMOTIVE PLATING INDUSTRIES
Address	24 LEGAL ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
NAICS Codes	332813
SIC Codes	3471
SIC Descriptions	ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	07-OCT-2014 15:34:32
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING.

Location	40.70293, -74.19517
Distance to site	4833 ft / 0.92 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110015168414
EPA Identifier	110015168414
Primary Name	NEWARK CITY FIRE DEPT ENGINE CO #19
Address	526 528 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:59:58
Recorded On	14-JUL-2003 11:59:58

NJ Environmental Management System

Location	40.70297, -74.19515
Distance to site	4842 ft / 0.92 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031866915
EPA Identifier	110031866915
Primary Name	M&Z ASSOC INC
Address	528 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07112
SIC Codes	5541
SIC Descriptions	GASOLINE SERVICE STATIONS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	02-APR-2015 12:47:13
Recorded On	03-NOV-2007 08:07:20

Location	40.68642, -74.19987
Distance to site	4852 ft / 0.92 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110042103274
EPA Identifier	110042103274
Primary Name	HEDAYA HOME FASHIONS INC
Address	1111 JEFFERSON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07207
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 09:36:17
Recorded On	17-SEP-2010 13:06:04

NJ Environmental Management System

Location	40.69786, -74.20061
Distance to site	4907 ft / 0.93 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030725703
EPA Identifier	110030725703
Primary Name	NEWARK CITY HOUSING AUTH 130 DAYTON ST
Address	120 130 DAYTON ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07103
SIC Codes	7011
SIC Descriptions	HOTELS AND MOTELS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 10:26:41
Recorded On	11-JUL-2007 09:47:28

Location	40.69139, -74.20206
Distance to site	4929 ft / 0.93 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014861907
EPA Identifier	110014861907
Primary Name	889 CORP
Address	889 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07102
SIC Codes	4111
SIC Descriptions	LOCAL AND SUBURBAN TRANSIT
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:49:49
Recorded On	11-JUL-2003 05:55:03

NJ Environmental Management System

Location	40.69139, -74.20206
Distance to site	4929 ft / 0.93 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032119188
EPA Identifier	110032119188
Primary Name	ORANGE NEWARK ELIZABETH BUS INC
Address	889 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4111
SIC Descriptions	LOCAL AND SUBURBAN TRANSIT
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:09:40
Recorded On	03-NOV-2007 18:11:23

Location	40.70543, -74.17877
Distance to site	4943 ft / 0.94 mi NE
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030525778
EPA Identifier	110030525778
Primary Name	SKY CHEFS FLIGHT KITCHEN @ NEWARK LIBERTY INTNL AIRPORT
Address	BLDG 95
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:58:02
Recorded On	11-JUN-2007 15:34:24

NJ Environmental Management System

Location	40.68941, -74.20174
Distance to site	4956 ft / 0.94 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032073404
EPA Identifier	110032073404
Primary Name	DECARO TRUCKING CO INC
Address	22 MCCLELLAN ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:38:44
Recorded On	03-NOV-2007 16:53:28

Location	40.7037, -74.19471
Distance to site	4982 ft / 0.94 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110037046452
EPA Identifier	110037046452
Primary Name	TARI MANAGEMENT INC
Address	499 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	10-APR-2015 08:55:47
Recorded On	07-JUL-2008 10:04:45

NJ Environmental Management System

Location	40.7037, -74.19471
Distance to site	4982 ft / 0.94 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029587294
EPA Identifier	110029587294
Primary Name	BILLA MANAGEMENT INC SERVICE STATION
Address	499 509 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07102
NAICS Codes	004451, 447190
SIC Codes	5400, 5541
SIC Descriptions	GASOLINE SERVICE STATIONS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	14-JAN-2015 09:34:03
Recorded On	03-MAY-2007 02:58:29
NAICS Descriptions	OTHER GASOLINE STATIONS.

Location	40.68945, -74.20185
Distance to site	4984 ft / 0.94 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029616226
EPA Identifier	110029616226
Primary Name	DRY ICE CORP
Address	39 MCLELLAN ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:13:05
Recorded On	03-MAY-2007 18:28:32

NJ Environmental Management System

Location	40.68412, -74.19856
Distance to site	5003 ft / 0.95 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110062859321
EPA Identifier	110062859321
Primary Name	1022 MONROE AVENUE
Address	1022 MONROE AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	20-NOV-2014 07:11:26

Location	40.6924, -74.2024
Distance to site	5006 ft / 0.95 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031982344
EPA Identifier	110031982344
Primary Name	TEAM AIR FREIGHT FORWARDS
Address	49 55 EVERGREEN AVE
City	NEWARK CITY
County	ESSEX
State	NJ
Zipcode	07105
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 17:04:53
Recorded On	03-NOV-2007 14:06:39

NJ Environmental Management System

Location	40.69096, -74.20231
Distance to site	5014 ft / 0.95 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110011482494
EPA Identifier	110011482494
Primary Name	PHARMACEUTICAL INNOVATIONS INC
Address	897 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-2195
SIC Codes	2899
SIC Descriptions	CHEMICALS AND CHEMICAL PREPARATIONS, NOT ELSEWHERE CLASSIFIED
Programs	ICIS, NCDB, NJ-NJEMS, SSTS
Program Interests	COMPLIANCE ACTIVITY, ENFORCEMENT/COMPLIANCE ACTIVITY, PESTICIDE PRODUCER, STATE MASTER
Updated On	02-OCT-2015 11:07:59
Recorded On	01-MAR-2000 00:00:00

Location	40.69094, -74.20232
Distance to site	5017 ft / 0.95 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110028944873
EPA Identifier	110028944873
Primary Name	LEP PROFIT INTERNATIONAL INC
Address	896 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:49:08
Recorded On	21-APR-2007 13:54:42

NJ Environmental Management System

Location	40.69094, -74.20232
Distance to site	5017 ft / 0.95 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031888465
EPA Identifier	110031888465
Primary Name	BURLINGTON AIR EXPRESS
Address	896 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4513
SIC Descriptions	AIR COURIER SERVICES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:38:06
Recorded On	03-NOV-2007 09:33:36

Location	40.69094, -74.20232
Distance to site	5017 ft / 0.95 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110057136022
EPA Identifier	110057136022
Primary Name	McFRELING
Address	896 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	28-FEB-2014 09:18:45

NJ Environmental Management System

Location	40.69094, -74.20232
Distance to site	5017 ft / 0.95 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031941282
EPA Identifier	110031941282
Primary Name	GEOLOGISTICS AMERICAS INC
Address	896 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	4731
SIC Descriptions	ARRANGEMENT OF TRANSPORTATION OF FREIGHT AND CARGO
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:43:13
Recorded On	03-NOV-2007 12:22:49

Location	40.69682, -74.2016
Distance to site	5030 ft / 0.95 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032084143
EPA Identifier	110032084143
Primary Name	TORRES JOSE E
Address	158 DAYTON ST
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 09:27:53
Recorded On	03-NOV-2007 17:10:35

NJ Environmental Management System

Location	40.70395, -74.19455
Distance to site	5031 ft / 0.95 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031903411
EPA Identifier	110031903411
Primary Name	NEWARK PAINT CO
Address	480 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07101
SIC Codes	2851
SIC Descriptions	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:42:37
Recorded On	03-NOV-2007 10:20:33

Location	40.70395, -74.19455
Distance to site	5031 ft / 0.95 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031913259
EPA Identifier	110031913259
Primary Name	RICHARD E THIBAUT INC
Address	480 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	5198
SIC Descriptions	PAINTS, VARNISHES, AND SUPPLIES
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 17:18:34
Recorded On	03-NOV-2007 10:51:35

NJ Environmental Management System

Location	40.70395, -74.19455
Distance to site	5031 ft / 0.95 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029408638
EPA Identifier	110029408638
Primary Name	BEAZER EAST INC ECRA CLEANUP
Address	480 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:00:01
Recorded On	26-APR-2007 07:19:02

Location	40.70397, -74.19454
Distance to site	5037 ft / 0.95 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012304648
EPA Identifier	110012304648
Primary Name	DUBLIN SCRAP METAL INC
Address	489 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1425
NAICS Codes	042393
SIC Codes	5093
SIC Descriptions	SCRAP AND WASTE MATERIALS
Programs	AIR, AIRS/AFS, NJ-NJEMS, NPDES
Program Interests	AIR MINOR, ICIS-NPDES NON-MAJOR, STATE MASTER
Updated On	11-JAN-2015 09:38:43
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.70397, -74.19454
Distance to site	5037 ft / 0.95 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032144935
EPA Identifier	110032144935
Primary Name	TOTAL WASTE TECHNOLOGIES INC
Address	489 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:10:18
Recorded On	03-NOV-2007 18:52:01

Location	40.70397, -74.19454
Distance to site	5037 ft / 0.95 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031925344
EPA Identifier	110031925344
Primary Name	J&J METAL CO
Address	489 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	5093
SIC Descriptions	SCRAP AND WASTE MATERIALS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:43:19
Recorded On	03-NOV-2007 11:33:35

NJ Environmental Management System

Location 40.6881, -74.20164
Distance to site 5063 ft / 0.96 mi W
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000615834
EPA Identifier 110000615834
Primary Name NU SOILS INC
Address 55 VIRGINIA STREET
City NEWARK
County ESSEX
State NJ
Zipcode 07114-2104
SIC Codes 2869, 3999
SIC Descriptions INDUSTRIAL ORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED, MANUFACTURING INDUSTRIES, NOT ELSEWHERE CLASSIFIED
Programs NJ-NJEMS, RCRAINFO
Program Interests STATE MASTER, UNSPECIFIED UNIVERSE
Updated On 23-SEP-2014 09:27:47
Recorded On 01-MAR-2000 00:00:00

Location 40.6788, -74.1876
Distance to site 5100 ft / 0.97 mi S
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110063912020
EPA Identifier 110063912020
Primary Name CHELSEA CATERING @ NEWARK LIBERTY INTNL AIRPORT
Address NEWARK LIBERTY INTNL AIRPORT
City ELIZABETH
County UNION
State NJ
Zipcode 07890
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 14-APR-2015 10:42:50

NJ Environmental Management System

Location	40.69269, -74.20274
Distance to site	5100 ft / 0.97 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110004191623
EPA Identifier	110004191623
Primary Name	BUFFALO AIR FREIGHT
Address	45-55 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	09-AUG-2010 08:49:16
Recorded On	01-MAR-2000 00:00:00

Location	40.68571, -74.20039
Distance to site	5103 ft / 0.97 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110059682865
EPA Identifier	110059682865
Primary Name	1043 JEFFERSON AVENUE
Address	1043 JEFFERSON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	29-MAY-2014 10:34:50

NJ Environmental Management System

Location	40.6927, -74.20277
Distance to site	5107 ft / 0.97 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029629196
EPA Identifier	110029629196
Primary Name	NEWARK CITY HOUSING AUTH SETH BOYDEN ELDERLY
Address	46 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07103
NAICS Codes	053111
SIC Codes	6513
SIC Descriptions	OPERATORS OF APARTMENT BUILDINGS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:12:54
Recorded On	03-MAY-2007 19:26:59

Location	40.6927, -74.2028
Distance to site	5115 ft / 0.97 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032001964
EPA Identifier	110032001964
Primary Name	ORANGE NEWARK ELIZABETH REALTY I
Address	43 47 EVERGREEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	18-AUG-2010 21:38:44
Recorded On	03-NOV-2007 14:44:51

NJ Environmental Management System

Location	40.68455, -74.19975
Distance to site	5176 ft / 0.98 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032488966
EPA Identifier	110032488966
Primary Name	VAZQUEZ JOSE & EVELIDES
Address	1035 MADISON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:27:10
Recorded On	05-NOV-2007 15:26:51

Location	40.68213, -74.197
Distance to site	5177 ft / 0.98 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110060312399
EPA Identifier	110060312399
Primary Name	957 959 JACKSON AVENUE
Address	957 959 JACKSON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	28-AUG-2014 15:03:54

NJ Environmental Management System

Location	40.70473, -74.1941
Distance to site	5204 ft / 0.99 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110000319691
EPA Identifier	110000319691
Primary Name	FIDELITY CHEMICAL PROD CORP
Address	470 FRELINGHUYSEN AVENUE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114-1419
NAICS Codes	325188, 325612, 325998, 331492
SIC Codes	2819, 2842, 2899, 3900
SIC Descriptions	CHEMICALS AND CHEMICAL PREPARATIONS, NOT ELSEWHERE CLASSIFIED, INDUSTRIAL INORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED, SPECIALTY CLEANING, POLISHING, AND SANITATION PREPARATIONS
Programs	AIR, AIRS/AFS, BR, EIS, ICIS, NCDB, NJ-NJEMS, RCRAINFO, TRIS, TSCA
Program Interests	AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, COMPLIANCE ACTIVITY, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, LQG, STATE MASTER, TRI REPORTER, TSCA SUBMITTER
Updated On	31-DEC-2015 11:38:55
Recorded On	01-MAR-2000 00:00:00
NAICS Descriptions	ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING., ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING., POLISH AND OTHER SANITATION GOOD MANUFACTURING., SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM).

Location	40.68542, -74.2006
Distance to site	5205 ft / 0.99 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fij_query_detail.disp_program_facility?p_registry_id=110004155155
EPA Identifier	110004155155
Primary Name	LEASEWAY TRANSPORTATION
Address	1000 JEFFERSON AVENUE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201-1394
Programs	NJ-NJEMS, RCRAINFO
Program Interests	STATE MASTER, UNSPECIFIED UNIVERSE
Updated On	09-AUG-2010 08:35:35
Recorded On	01-MAR-2000 00:00:00

NJ Environmental Management System

Location	40.68542, -74.2006
Distance to site	5205 ft / 0.99 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030531725
EPA Identifier	110030531725
Primary Name	AMERICAN BOY & GIRL HEADWEAR CORP
Address	1000 JEFFERSON AVE
City	ELIZABETH CITY
County	UNION
State	NJ
Zipcode	07201
SIC Codes	2353
SIC Descriptions	HATS, CAPS, AND MILLINERY
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:36:11
Recorded On	11-JUN-2007 15:45:57

Location	40.68542, -74.2006
Distance to site	5205 ft / 0.99 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110045583329
EPA Identifier	110045583329
Primary Name	ABG ACCESSORIES
Address	1000 JEFFERSON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07202
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Recorded On	01-JUN-2012 11:22:38

NJ Environmental Management System

Location	40.68542, -74.2006
Distance to site	5205 ft / 0.99 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110029342058
EPA Identifier	110029342058
Primary Name	THE DIAL CORP
Address	1000 JEFFERSON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07207
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 19:02:09
Recorded On	25-APR-2007 16:08:06

Location	40.68542, -74.2006
Distance to site	5205 ft / 0.99 mi SW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030678434
EPA Identifier	110030678434
Primary Name	WATERFRONT CARGO MANAGEMENT INC
Address	1000 JEFFERSON AVE
City	ELIZABETH
County	UNION
State	NJ
Zipcode	07201
SIC Codes	4731
SIC Descriptions	ARRANGEMENT OF TRANSPORTATION OF FREIGHT AND CARGO
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 09:45:24
Recorded On	10-JUL-2007 16:53:57

NJ Environmental Management System

Location 40.68542, -74.2006
Distance to site 5205 ft / 0.99 mi SW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110041320326
EPA Identifier 110041320326
Primary Name SCHOTT NYC CORP
Address 1000 JEFFERSON AVE
City ELIZABETH
County UNION
State NJ
Zipcode 07201
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 18:02:45
Recorded On 15-JUN-2010 08:43:51

Location 40.68542, -74.2006
Distance to site 5205 ft / 0.99 mi SW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110032495814
EPA Identifier 110032495814
Primary Name SEARS ROEBUCK & CO LOGISTICAL SERVICES INC
Address 1000 1108 JEFFERSON AVE
City ELIZABETH
County UNION
State NJ
Zipcode 07201
Programs NJ-NJEMS
Program Interests STATE MASTER
Updated On 29-DEC-2014 19:26:03
Recorded On 05-NOV-2007 15:52:04

Location 40.70565, -74.19193
Distance to site 5223 ft / 0.99 mi NW
Info URL http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110043526011
EPA Identifier 110043526011
Primary Name GLOBAL INTERNATIONAL TRADING CO
Address 422 440 FRELINGHUYSEN AVE
City NEWARK CITY
County ESSEX
State NJ
Zipcode 071141419
Programs NJ-NJEMS
Program Interests STATE MASTER
Recorded On 02-JUN-2011 17:26:36

NJ Environmental Management System

Location	40.70686, -74.18533
Distance to site	5228 ft / 0.99 mi N
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110030716170
EPA Identifier	110030716170
Primary Name	WAVERLY YARDS NORRIS TRACT
Address	2 38 INTERNATIONAL WAY
City	NEWARK CITY
County	ESSEX
State	NJ
Zipcode	07105
NAICS Codes	339920
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	06-JUL-2015 10:22:21
Recorded On	11-JUL-2007 09:22:27
NAICS Descriptions	SPORTING AND ATHLETIC GOODS MANUFACTURING.

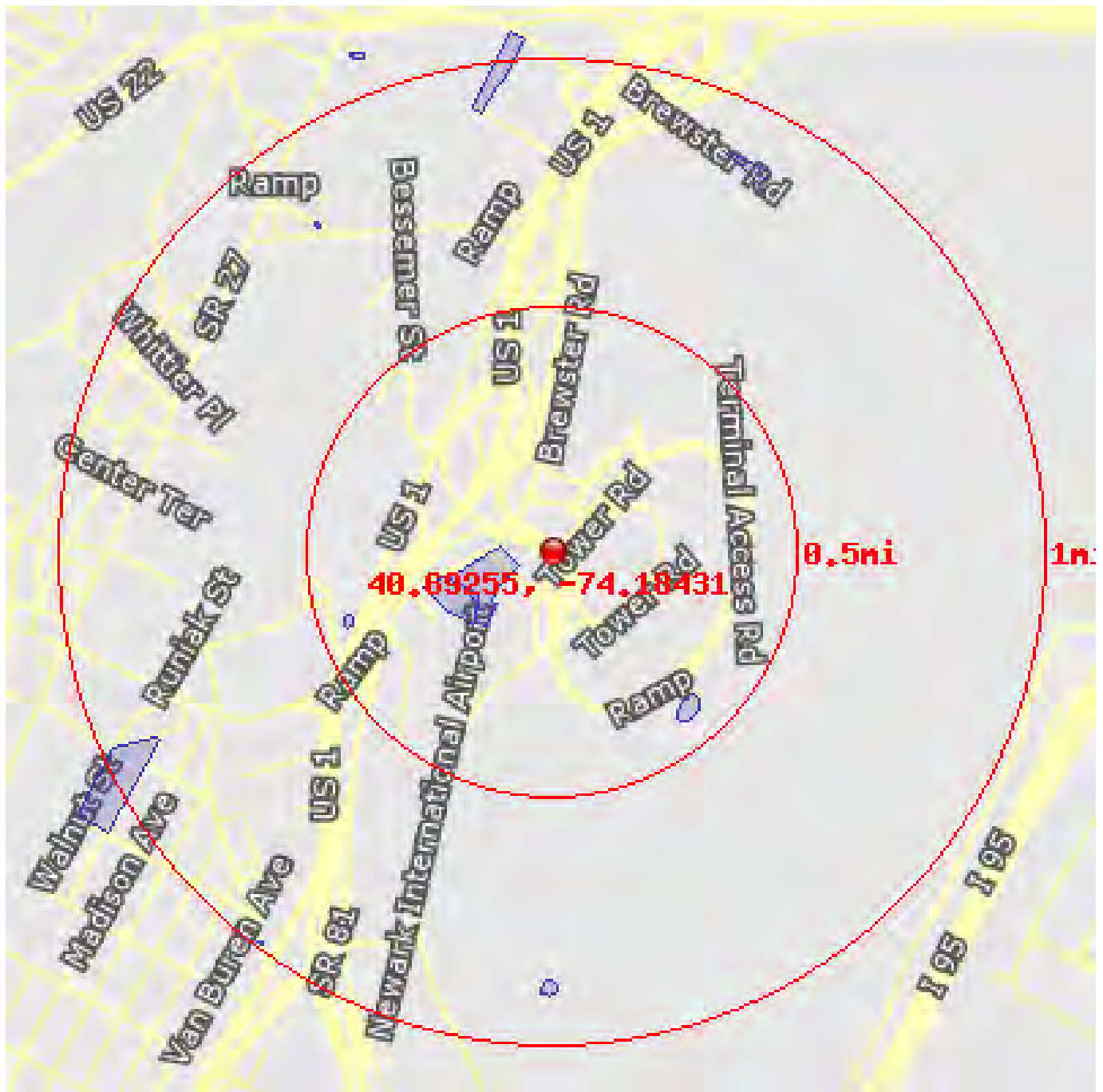
Location	40.68986, -74.20298
Distance to site	5258 ft / 1 mi W
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110014908378
EPA Identifier	110014908378
Primary Name	DOCO SERVICE BAKERIES DCA FOOD INDUSTRIES
Address	931 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 14:50:36
Recorded On	11-JUL-2003 07:53:24

NJ Environmental Management System

Location	40.705, -74.19394
Distance to site	5266 ft / 1 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110040230416
EPA Identifier	110040230416
Primary Name	AMERI TEX INC
Address	461 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	12-OCT-2012 09:07:46
Recorded On	15-JAN-2010 22:19:37

Location	40.705, -74.19394
Distance to site	5266 ft / 1 mi NW
Info URL	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110031897197
EPA Identifier	110031897197
Primary Name	AVITEX CO INC
Address	461 FRELINGHUYSEN AVE
City	NEWARK
County	ESSEX
State	NJ
Zipcode	07114
SIC Codes	2396
SIC Descriptions	AUTOMOTIVE TRIMMINGS, APPAREL FINDINGS, AND RELATED PRODUCTS
Programs	NJ-NJEMS
Program Interests	STATE MASTER
Updated On	29-DEC-2014 18:37:53
Recorded On	03-NOV-2007 10:01:27

NJ Groundwater Contamination Area (CEA)



This database returned 10 results for your area.

This data identifies those sites where groundwater contamination has been identified and, where appropriate, the NJDEP has established a Classification Exception Area (CEA). CEAs are institutional controls in geographically defined areas within which the New Jersey Ground Water Quality Standards for specific contaminants have been exceeded. When a CEA is designated for an area, the constituent standards and designated aquifer uses are suspended for the term of the CEA. A public understanding of where ground water is known to be contaminated can help prevent inappropriate well placement, preventing potential health risks and can minimize unintended contaminant plume migration.

NJ Groundwater Contamination Area (CEA)

Location	40.69172, -74.18684
Distance to site	764 ft / 0.14 mi W
Name	Avis Rent A Car System
Address	Newark Airport, Bldg #25
Legal: Block & Lot	5904-1
Municipality	Newark City
County	Essex
Start Date	4/11/2000
Duration	Indeterm.
Final Remediation	No
Closed	No
Depth in Feet	75.00000000
Acres	6.12235083
Classification Exception Area	1287
Presence of Benzene	Yes
Presence of MTBE	Yes
Presence of TBA	Yes
Presence of Volatile Organics	Toluene, ethylbenzene, xylenes
Known Contaminated Site ID	NJL600003560

NJ Groundwater Contamination Area (CEA)

Location	40.69119, -74.18803
Distance to site	1142 ft / 0.22 mi W
Name	National Car Rental Facility
Address	Newark Internat. Airport
Legal: Block & Lot	5094-1
Municipality	Newark City
County	Essex
Start Date	8/21/2001
Duration	6
Final Remediation	No
Closed	No
Depth in Feet	50.00000000
Acres	3.76114748
Classification Exception Area	1820
Presence of Benzene	Yes
Presence of MTBE	<Null>
Presence of TBA	Yes
Presence of TCE	<Null>
Presence of PCE	<Null>
Presence of Naphthalene	<Null>
Presence of Vinyl Chloride	<Null>
Presence of Benzpyrene	<Null>
Presence of Lead	<Null>
Presence of Arsenic	<Null>
Presence of Chromium	<Null>
Presence of Cadmium	<Null>
Presence of Mercury	<Null>
Tentatively Identified Chemicals Present	<Null>
Presence of Volatile Organics	<Null>
Presence of Metal	<Null>
Presence of Pesticide	<Null>
Presence of PCB	<Null>
Presence of Dioxin	<Null>
Presence of Free Product	<Null>
Known Contaminated Site ID	NJL600039515

NJ Groundwater Contamination Area (CEA)

Location	40.68798, -74.17905
Distance to site	2214 ft / 0.42 mi SE
Name	Ogden Aviation
Address	N. Ave. & Division St.
Legal: Block & Lot	5094-1
Municipality	Elizabeth City
County	Union
Start Date	12/11/1995
Duration	Indeterm.
Final Remediation	No
Closed	No
Depth in Feet	50.00000000
Acres	1.07697338
Classification Exception Area	1004
Presence of Benzene	Yes
Presence of MTBE	Yes
Presence of Naphthalene	Yes
Presence of Lead	Yes
Presence of Volatile Organics	Xylenes
Known Contaminated Site ID	NJD981481807

Location	40.69054, -74.19213
Distance to site	2285 ft / 0.43 mi W
Name	Dollar Rent A Car
Address	162 Rt. 1
Legal: Block & Lot	5090-60
Municipality	Newark City
County	Essex
Start Date	9/21/1998
Duration	18
Final Remediation	No
Closed	No
Depth in Feet	50.00000000
Acres	0.24657001
Classification Exception Area	866
Presence of Benzene	Yes
Presence of MTBE	Yes
Known Contaminated Site ID	NJL800116311

NJ Groundwater Contamination Area (CEA)

Location	40.7021, -74.19333
Distance to site	4283 ft / 0.81 mi NW
Name	Allstates Air Cargo Site
Address	35 Fenwick St.
Legal: Block & Lot	3510.01-20,22,30,36
Municipality	Newark City
County	Essex
Start Date	7/15/2002
Duration	1.5
Final Remediation	Yes
Closed	No
Depth in Feet	20.00000000
Acres	0.05713195
Classification Exception Area	2446
Presence of Benzene	Yes
Known Contaminated Site ID	NJL600214696

Location	40.70374, -74.17664
Distance to site	4601 ft / 0.87 mi NE
Name	United Airlines Hangar 14
Address	Newark Internat. Airport
Legal: Block & Lot	5094-1
Municipality	Newark City
County	Essex
Start Date	4/15/1999
Duration	18
Final Remediation	Yes
Closed	No
Depth in Feet	0.00000000
Acres	1.12496604
Classification Exception Area	511
Presence of Benzene	Yes
Presence of MTBE	Yes
Known Contaminated Site ID	NJL600178446

NJ Groundwater Contamination Area (CEA)

Location	40.67981, -74.18441
Distance to site	4650 ft / 0.88 mi S
Name	Federal Express Corp.
Address	Bldg. 347, Newark Airport
Municipality	Newark City
County	Essex
Start Date	1/11/1999
Duration	Indeterm.
Final Remediation	No
Closed	No
Depth in Feet	50.00000000
Acres	0.44580622
Presence of Benzene	Yes
Presence of MTBE	Yes
Presence of Naphthalene	Yes
Presence of Volatile Organics	Toluene, ethylbenzene, xylenes
Known Contaminated Site ID	NJD986582799

NJ Groundwater Contamination Area (CEA)

Location	40.70664, -74.18631
Distance to site	5169 ft / 0.98 mi N
Name	Hub Recycling & Scrap Metal Co., Inc.
Address	International Way
Legal: Block & Lot	5088-169
Municipality	Newark City
County	Essex
Start Date	1/18/2007
Duration	Indeterm.
Final Remediation	Yes
Closed	No
Depth in Feet	15.00000000
Acres	2.88736093
Classification Exception Area	18470
Presence of Benzene	<Null>
Presence of MTBE	<Null>
Presence of TBA	<Null>
Presence of TCE	<Null>
Presence of PCE	<Null>
Presence of Naphthalene	<Null>
Presence of Vinyl Chloride	<Null>
Presence of Benzpyrene	<Null>
Presence of Lead	<Null>
Presence of Arsenic	Yes
Presence of Chromium	<Null>
Presence of Cadmium	<Null>
Presence of Mercury	<Null>
Tentatively Identified Chemicals Present	<Null>
Presence of Volatile Organics	<Null>
Presence of Metal	Iron, manganese
Presence of Pesticide	<Null>
Presence of PCB	<Null>
Presence of Dioxin	<Null>
Presence of Free Product	<Null>
Known Contaminated Site ID	NJL000010843

NJ Groundwater Contamination Area (CEA)

Location	40.68113, -74.19553
Distance to site	5200 ft / 0.98 mi SW
Name	Ryder Truck Rental Inc.
Address	Rt. 1 & Neck Ln.
Legal: Block & Lot	8-1622
Municipality	Elizabeth City
County	Union
Start Date	4/23/2007
Duration	15.4
Closed	No
Depth in Feet	10.00000000
Acres	0.01940108
Classification Exception Area	933
Presence of Benzene	Yes
Known Contaminated Site ID	NJD048794747

Location	40.6858, -74.20112
Distance to site	5264 ft / 1 mi W
Name	Sears Roebuck Co.
Address	1000 Jefferson Ave.
Municipality	Elizabeth City
County	Union
Start Date	12/29/1999
Duration	6
Closed	No
Depth in Feet	50.00000000
Acres	8.44544304
Classification Exception Area	857
Tentatively Identified Chemicals Present	Yes
Presence of Volatile Organics	Xylenes
Known Contaminated Site ID	NJL600181259

NJ Groundwater Contamination Area (CKE)

This database returned no results for your area.

This data layer contains information about areas in the state which are specified as the Currently Known Extent (CKE) of ground water pollution. CKE areas are geographically defined areas within which the local ground water resources are known to be compromised because the water quality exceeds drinking water and ground water quality standards for specific contaminants.

NJ Chromate Waste Sites

This database returned no results for your area.

The New Jersey Department of Environmental Protection (NJDEP) maintains a list of known sites with chromate contamination. Included are those sites within New Jersey where chromate contamination of soil or ground water has been identified; This list of chromate waste sites include sites where remediation is either currently under way, required but not yet initiated or has been completed. The data included here dates from 1995. It is important to note that since some of the cases included may have been fully remediated and they should no longer be listed; however information confirming completion of the remediation has not reached NJDEP. Additionally more chromate waste sites may yet be identified and accordingly are not included here.

NJ Activity and Use Limitations



This database returned 2 results for your area.

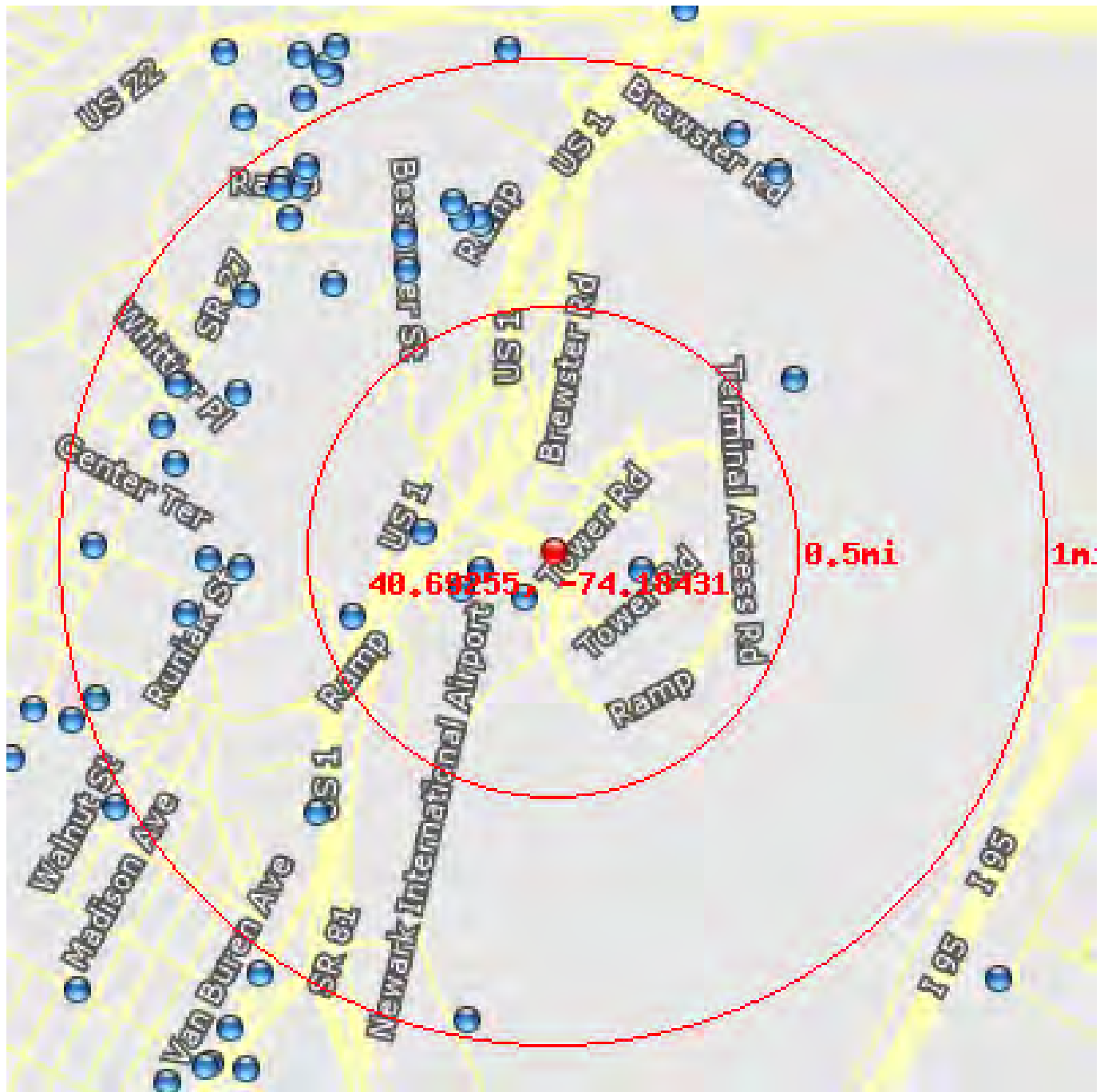
Activity and Use Limitations (AULs), also known as Environmental Land-Use Controls (LUCs) – An AUL is a restriction, covenant or notice concerning the use of real property, which is imposed on real property. AULs and LUCs are further categorized as Institutional Controls (ICs) and Engineering Controls (ECs). An IC is a legal or regulatory restriction on the use of a property, limiting the use of groundwater and excavations or preventing such businesses as day care centers or schools on the property. An EC involves physical means of restricting site access or use in order to prevent the spreading or exposure of a contaminant. Frequently implemented engineering controls include requiring black top on the surface, building of structures to prevent exposure or even notices to the public that are posted on the grounds warning of contaminants. This data layer identifies those Known Contaminates Sites (KCS) or sites on Site Remediations Programs' (SRP) Comprehensive Site List (CSL) that have been assigned a Deed notice.

NJ Activity and Use Limitations

Location	40.69172, -74.19645
Distance to site	3372 ft / 0.64 mi W
Case Name	Penick Corp.
Address	158 Mt. Olivet Ave.
Legal: Block & Lot	5090-75
Municipality	Newark City
County	Essex
Known Contaminated Site ID	NJD991291642
Site Acreage	9.06997075

Location	40.70663, -74.18631
Distance to site	5166 ft / 0.98 mi N
Case Name	Hub Recycling Inc.
Address	International Way
Legal: Block & Lot	5088-169
Municipality	Newark City
County	Essex
Known Contaminated Site ID	NJL000010843
Site Acreage	0.00000000

NJ Known Contaminated Sites



This database returned 33 results for your area.

The New Jersey Department of Environmental Protection (NJDEP) maintains a list of Known Contaminated Sites. The Known Contaminated Sites List (KCSNJ) for New Jersey (Non-Homeowner) 2009 are those non-homeowner sites and properties within the state where contamination of soil or groundwater has been confirmed at levels equal to or greater than applicable standards. This list of Known Contaminated Sites may include sites where remediation is either currently under way, required but not yet initiated or has been completed.

NJ Known Contaminated Sites

Location 40.69114, -74.1854
Distance to site 598 ft / 0.11 mi SW
Site ID 8432
Address NEWARK INTERNATIONAL AIRPORT
Status Active
Status Date 1992-01-03
Site Name HERTZ RENT A CAR 1902-11
Remediation Level C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area None

Location 40.69194, -74.18707
Distance to site 795 ft / 0.15 mi W
Site ID 8385
Address NEWARK INT AIRPORT BLDG 28
Status Active
Status Date 2003-04-01
Site Name AVIS RENT A CAR SYSTEM LLC
Remediation Level C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area Ongoing

Location 40.69189, -74.18082
Distance to site 994 ft / 0.19 mi E
Site ID 121368
Address RT 1 & 9
Status Active
Status Date 1994-09-16
Site Name NEWARK AIRPORT
Remediation Level C3: Multi-Phased RA - Unknown or Uncontrolled Discharge to Soil or GW
Classification Exception Area None

Location 40.69137, -74.1878
Distance to site 1057 ft / 0.2 mi W
Site ID 8561
Address NEWARK INTERNATIONAL AIRPORT - BLDG 26
Status Active
Status Date 2003-04-04
Site Name NATIONAL CAR RENTAL
Remediation Level C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area Ongoing

NJ Known Contaminated Sites

Location	40.69305, -74.18926
Distance to site	1382 ft / 0.26 mi W
Site ID	15724
Address	499 501 FRELINGHUSEN AVE
Status	Active
Status Date	2002-03-21
Site Name	TARI MANAGEMENT INC
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	None

Location	40.69056, -74.19202
Distance to site	2255 ft / 0.43 mi W
Site ID	51365
Address	162 RTE 1
Status	Active
Status Date	1998-09-21
Site Name	DOLLAR RENT A CAR
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	Ongoing

Location	40.69746, -74.175
Distance to site	3136 ft / 0.59 mi NE
Site ID	8350
Address	HANGAR 55 NEWARK INTL AIRPORT
Status	Active
Status Date	1994-03-23
Site Name	CONTINENTAL AIRLINES
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	None

Location	40.69202, -74.19628
Distance to site	3318 ft / 0.63 mi W
Site ID	14206
Address	158 MOUNT OLIVET AVE
Status	Active
Status Date	1996-11-18
Site Name	PENICK CORP
Remediation Level	C3: Multi-Phased RA - Unknown or Uncontrolled Discharge to Soil or GW
Classification Exception Area	None

NJ Known Contaminated Sites

Location	40.7007, -74.1899
Distance to site	3350 ft / 0.63 mi NW
Site ID	74154
Address	24 74 BESSEMER ST
Status	Active
Status Date	1999-02-03
Site Name	CITY CEMETERY
Remediation Level	C1: No Formal Design - Source Known or Identified-Potential GW Contamination
Classification Exception Area	None
Location	40.70205, -74.187
Distance to site	3545 ft / 0.67 mi N
Site ID	65318
Address	HAYNES AVE
Status	Pending
Status Date	1998-06-22
Site Name	NORRIS INDUSTRIES
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	None
Location	40.70224, -74.18712
Distance to site	3619 ft / 0.69 mi N
Site ID	64855
Address	146 HAYNES AVE
Status	Pending
Status Date	1998-07-09
Site Name	UNITED AIRLINES
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	None
Location	40.70219, -74.18781
Distance to site	3646 ft / 0.69 mi N
Site ID	85853
Address	BESSEMER ST & HAYNES AVE
Status	Active
Status Date	1998-11-04
Site Name	WAVERLY YARDS
Remediation Level	C1: No Formal Design - Source Known or Identified-Potential GW Contamination
Classification Exception Area	None

NJ Known Contaminated Sites

Location 40.70028, -74.19273
Distance to site 3657 ft / 0.69 mi NW
Site ID 14913
Address 27- 49 HAYNES AVE
Status Active
Status Date 1993-03-15
Site Name HAYNES AVENUE REALTY CO
Remediation Level C3: Multi-Phased RA - Unknown or Uncontrolled Discharge to Soil or GW
Classification Exception Area None

Location 40.69221, -74.19756
Distance to site 3667 ft / 0.69 mi W
Site ID 8633
Address 780 FRELINGHUYSEN AVE
Status Active
Status Date 2001-09-05
Site Name USS CORP
Remediation Level C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area None

Location 40.70173, -74.18995
Distance to site 3692 ft / 0.7 mi NW
Site ID 63736
Address 135 HAYNES AVE
Status Pending
Status Date 1994-02-15
Site Name BESSEMER PROCESSING COMPANY INCORPORATED
Remediation Level C1: No Formal Design - Source Known or Identified-Potential GW Contamination
Classification Exception Area None

Location 40.6971, -74.19636
Distance to site 3723 ft / 0.71 mi W
Site ID 40821
Address 660 FRELINGHUYSEN AVE
Status Active
Status Date 1990-05-15
Site Name WHITE CHEMICAL CORPORATION
Remediation Level C1: No Formal Design - Source Known or Identified-Potential GW Contamination
Classification Exception Area None

NJ Known Contaminated Sites

Location 40.68482, -74.19331
Distance to site 3764 ft / 0.71 mi SW
Site ID 80080
Address 1128-1138 SPRING ST & RTE 1 & 9
Status Active
Status Date 2000-01-31
Site Name HAMPTON INN
Remediation Level C3: Multi-Phased RA - Unknown or Uncontrolled Discharge to Soil or GW
Classification Exception Area None

Location 40.70262, -74.18813
Distance to site 3823 ft / 0.72 mi N
Site ID 153096
Address 652 672 HAYNES AVE &
Status NFA-E (Restricted Use)
Status Date 2007-08-04
Site Name 129 COMMERCIAL INDUSTRIAL PLAZA
Remediation Level C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area Ongoing

Location 40.69065, -74.19836
Distance to site 3948 ft / 0.75 mi W
Site ID 54251
Address MOUNT OLIVET AVE
Status Pending
Status Date 1994-10-25
Site Name AMTRAK SUBSTATION 40 WAVERLY
Remediation Level C1: No Formal Design - Source Known or Identified-Potential GW Contamination
Classification Exception Area None

Location 40.69499, -74.19878
Distance to site 4100 ft / 0.78 mi W
Site ID 67329
Address 768 FRELINGHUYSEN AVE
Status Active
Status Date 2004-03-10
Site Name CITIBAG CORP
Remediation Level C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area None

NJ Known Contaminated Sites

Location	40.69995, -74.19608
Distance to site	4231 ft / 0.8 mi NW
Site ID	50575
Address	614 FRELINGHUYSEN AVE
Status	Active
Status Date	1999-09-16
Site Name	WESTON INSTRUMENTS INCORPORATED
Remediation Level	C1: No Formal Design - Source Known or Identified-Potential GW Contamination
Classification Exception Area	None
Location	40.69731, -74.19867
Distance to site	4335 ft / 0.82 mi W
Site ID	26264
Address	702 FRELINGHUYSEN AVE
Status	Active
Status Date	2003-02-12
Site Name	ATLANTIC BIAS PRODUCTS
Remediation Level	B: Single Phase RA - Single Contamination Affecting Only Soils
Classification Exception Area	None
Location	40.69611, -74.19929
Distance to site	4342 ft / 0.82 mi W
Site ID	18146
Address	750 FRELINGHUYSEN AVE
Status	Active
Status Date	2008-09-03
Site Name	LEGGETT & PLATT INC
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	None
Location	40.70221, -74.19437
Distance to site	4491 ft / 0.85 mi NW
Site ID	19963
Address	35 FENWICK ST
Status	NFA-A (Limited Restricted Use)
Status Date	2002-07-15
Site Name	ALL STATES AIR CARGO INCORPORATED
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	Ongoing

NJ Known Contaminated Sites

Location	40.70357, -74.17558
Distance to site	4690 ft / 0.89 mi NE
Site ID	14903
Address	191 MURRAY ST
Status	Active
Status Date	2003-07-17
Site Name	STEEL CRAFT INDUSTRIES
Remediation Level	C3: Multi-Phased RA - Unknown or Uncontrolled Discharge to Soil or GW
Classification Exception Area	None

Location	40.70313, -74.19409
Distance to site	4712 ft / 0.89 mi NW
Site ID	24252
Address	24 LEGAL ST
Status	Active
Status Date	1998-04-15
Site Name	KEYSTONE AUTOMOTIVE PLATING COMPANY
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	None

Location	40.70302, -74.19483
Distance to site	4801 ft / 0.91 mi NW
Site ID	57891
Address	526 FRELINGHUYSEN AVE
Status	Active
Status Date	2003-03-04
Site Name	ENGINE CO 19
Remediation Level	C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area	None

Location	40.70366, -74.19376
Distance to site	4823 ft / 0.91 mi NW
Site ID	15747
Address	480 FRELINGHUYSEN AVE
Status	Active
Status Date	1995-10-06
Site Name	WILLIAM ZINSSER & CO INC
Remediation Level	C3: Multi-Phased RA - Unknown or Uncontrolled Discharge to Soil or GW
Classification Exception Area	None

NJ Known Contaminated Sites

Location 40.70466, -74.17713
Distance to site 4843 ft / 0.92 mi NE
Site ID 8390
Address NEWARK INTERNATIONAL AIRPORT
Status Active
Status Date 2006-07-26
Site Name UNITED AIRLINES
Remediation Level C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area Ongoing

Location 40.70329, -74.19469
Distance to site 4857 ft / 0.92 mi NW
Site ID 50232
Address 9 LEGAL ST
Status Active
Status Date 1999-01-11
Site Name METAL FINISH INC
Remediation Level C2: Formal Design - Known Source or Release with GW Contamination
Classification Exception Area None

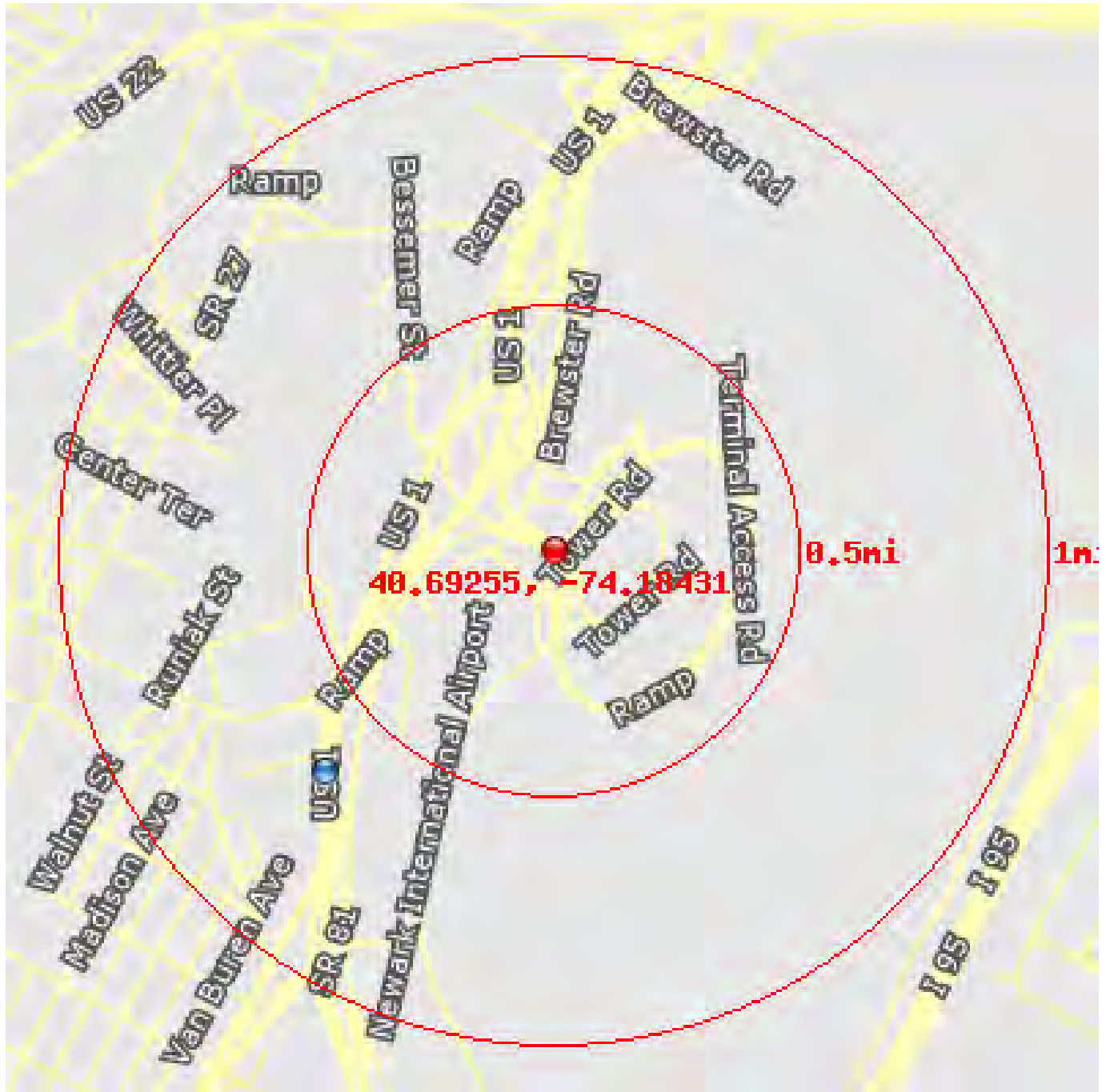
Location 40.69264, -74.2019
Distance to site 4868 ft / 0.92 mi W
Site ID 8383
Address 99 EVERGREEN AVE
Status NFA-E (Restricted Use)
Status Date 2008-07-16
Site Name BON-ART INTERNATIONAL
Remediation Level C1: No Formal Design - Source Known or Identified-Potential GW Contamination
Classification Exception Area None

Location 40.68817, -74.2018
Distance to site 5097 ft / 0.97 mi W
Site ID 33584
Address 55 VIRGINIA ST
Status Active
Status Date 1992-12-18
Site Name ORBIS PRODUCTS CORP
Remediation Level D: Multi-Phased RA - Multiple Source/Release to Multi-Media Including GW
Classification Exception Area None

NJ Known Contaminated Sites

Location	40.6788, -74.1876
Distance to site	5100 ft / 0.97 mi S
Site ID	56138
Address	BLDG 330
Status	Active
Status Date	2007-12-18
Site Name	CHELSEA CATERING NEWARK INTL AIRPORT
Remediation Level	C1: No Formal Design - Source Known or Identified-Potential GW Contamination
Classification Exception Area	None

NJ Underground Storage Tanks



This database returned 1 results for your area.

NJ Underground Storage Tanks

Location	40.6863, -74.19329
Distance to site	3373 ft / 0.64 mi SW
Facility ID	31501
Municipality	Elizabeth City
Name	NEWARK AIRPORT HILTON
Address	1170 SPRING ST
Expiration	2012-06-30 00:00:00
County	Union - Elizabeth City

NJ Closed Landfills

This database returned no results for your area.

Appendix G

Appendix G: Noise and Vibration Technical Report, September 2020, prepared by Paul Carpenter Associates, Inc.

Newark Liberty International Airport (EWR) AirTrain Replacement Program

APPENDIX G NOISE AND VIBRATION TECHNICAL REPORT

September 18, 2020

Prepared By:



Paul Carpenter Associates, Inc.
7 Columbia Turnpike, Suite 101
Florham Park, NJ 07932

AVI-15-032

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR) AIRTRAIN REPLACEMENT PROGRAM
NOISE AND VIBRATION TECHNICAL REPORT

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THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR) AIRTRAIN REPLACEMENT PROGRAM
NOISE AND VIBRATION TECHNICAL REPORT

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THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR) AIRTRAIN REPLACEMENT PROGRAM
NOISE AND VIBRATION TECHNICAL REPORT

EXECUTIVE SUMMARY

This Noise and Vibration Technical Report provides the methodologies and assumptions that formed the basis of the noise and vibration assessments for the Newark Liberty International Airport (EWR) AirTrain Replacement Program. The analyses detailed herein were prepared in accordance with Federal Aviation Administration (FAA) Guidelines to satisfy the National Environmental Policy Act (NEPA) and support the Environmental Assessment (EA) submitted for this project.

The Proposed Action involves a new AirTrain system including stations, pedestrian bridges, and a new MCF at the northern terminus. The construction and implementation of the proposed replacement AirTrain system and its components would result in a loss of 1,095 parking spaces from surrounding surface parking lots. These lots are primarily used by airline employees who work within the CTA. The combined capacity of surrounding surface parking lots (5,860 spaces) exceed demand (3,786 spaces). Therefore, airline employees will not be displaced due to the loss of parking spaces (1,095) associated with the Proposed Action since adequate surplus is available (2,074 spaces). In addition, supplemental busing is necessary to transport overflow riders from the Rail Link Station to various locations at the Airport beginning in 2022 when the system is expected to reach capacity until the new AirTrain system is implemented. Since the key element of the Proposed Action is the replacement of the existing AirTrain system, a transit-related noise source, the Federal Transit Administration (FTA) procedures were implemented for evaluation of transit-related impacts.

Supplemental busing routes under the No Action and Proposed Action Alternatives were screened as FTA ‘access roads,’ while the proposed AirTrain system was conservatively screened as a Low and Intermediate Capacity Transit system with steel wheels. Three noise sensitive receivers were identified within applicable screening distances and further evaluated for noise impacts. No operational noise impacts were predicted. Based on FTA guidance, rubber tires and suspension systems of buses provide vibration isolation, and it is therefore unlikely for such vehicles to cause ground-borne noise and vibration impacts. However, ground-borne noise and vibration impacts from operation of the replacement AirTrain system were evaluated at one vibration sensitive receiver and no operational vibration impacts were predicted.

Construction of the Proposed Action would result in potential weekday daytime and weekend nighttime noise impacts to the Holiday Inn Newark Airport and potential weekend nighttime impacts to the Newark Liberty International Airport Marriott. Construction noise impacts would potentially occur during impact pile driving and vibratory sheet driving related to construction of the replacement AirTrain system guideway substructure. No impacts were predicted as a result of demolition of the existing AirTrain infrastructure or due to truck trips along potential designated construction haul routes. Temporary noise level increases would also potentially occur at exterior Terminal One, Terminal B, and Terminal C skycap locations during guideway and pedestrian bridge construction activities.

Construction-related vibration levels would potentially exceed FTA recommended structural damage thresholds at the Holiday Inn Newark Airport, Terminal B, Terminal C, P4 Parking Garage, the Terminal C Parking Garage, existing AirTrain guideway, and the existing Northeast Corridor (NEC) tracks (serving Amtrak and NJ Transit) and Rail Link station as a result of impact pile driving and vibratory sheet driving related to construction of the replacement AirTrain system guideway substructure and pedestrian bridges. Construction-related vibration levels would potentially exceed FTA recommended annoyance thresholds at the Holiday Inn Newark Airport due to vibratory sheet driving and impact pile driving associated with the replacement AirTrain system guideway substructure, as well as during demolition of the existing AirTrain guideway. Additionally, construction-related vibration levels would potentially exceed FTA recommended annoyance thresholds during impact pile driving related to the replacement AirTrain system guideway substructure at the Newark Liberty International Airport Marriott, EWR Air Traffic Control Tower, and the Kintock Group.

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INTRODUCTION

This technical report presents the noise and vibration analyses prepared for the Newark Liberty International Airport (EWR) AirTrain Replacement Program Environmental Assessment (EA). The noise and vibration analyses were prepared to satisfy requirements of Federal Aviation Administration (FAA) Order 1050.1F Environmental Impacts: Policies and Procedures and was performed in accordance with the FAA's Environmental Desk Reference for Airport Actions, Chapter 11. Noise and Noise-Compatible Land Use.

The Proposed Action would not change aircraft operations but instead replace the existing AirTrain system, which is an existing surface transportation element at EWR. The Proposed Action also would include construction of pedestrian bridges and a new AirTrain Maintenance and Control Facility (MCF) to the north. Construction and implementation of the replacement AirTrain system and its components would also result in a loss of 1,095 parking spaces within surrounding surface parking lots primarily used by airline employees who work within the Central Terminal Area (CTA). The combined capacity of surrounding surface parking lots (5,860 spaces) exceed demand (3,786 spaces), thereby resulting in an adequate surplus of parking spaces (2,074). As such, airline employees will not be displaced due to construction or operation of the Proposed Action.

Pursuant to Section 11.5.1 of FAA's Environmental Desk Reference for Airport Actions, surface transportation impacts should be evaluated following guidelines and procedures available from the most applicable modal agency. Since the key element of the Proposed Action is the replacement of the existing AirTrain system, a transit-related noise source, the Federal Transit Administration (FTA) procedures were implemented for evaluation of transit-related impacts. Procedures are detailed within FTA's *Transit Noise and Vibration Impact Assessment Manual* (FTA Report No. 0123, September 2018).

METHODOLOGY

FTA's guidance includes methodologies for evaluating both transit-related airborne noise as well as ground-borne noise and vibration sources due to the operation of a Proposed Action. Methodology pertaining to the operational transit noise and vibration impact assessments are described in the following sections within this technical report.

FTA's guidance includes procedures for evaluating construction-related noise and vibration impacts from transit sources as well. Construction-related noise and vibration analyses are addressed within the Construction Noise and Vibration section of this technical report.

AIRBORNE NOISE ANALYSIS METHODOLOGY

Three categories of noise-sensitive land use are defined within FTA's guidance document, which include:

Noise Category 1 – Tracts of land where quiet is an essential element of the intended purpose;

Noise Category 2 – Residences and buildings where people normally sleep where nighttime sensitivity is greatest (e.g. homes, hospitals, and hotels); and

Noise Category 3 – Institutional land uses with daytime and evening use (e.g. schools, libraries, theaters, churches, parks, and recreational facilities where avoiding speech interference is critical).

FTA's guidance includes recommended screening distances to define the noise study area for operational noise assessments, which are based on the type of project or improvement that generates noise under the No Action and Proposed Action Alternatives. **Table G-1** identifies the noise sources that were part of the screening procedures for the No Action and Proposed Action Alternatives, the FTA project type to which each noise source was assigned, and the corresponding unobstructed (i.e. with direct line of sight) and obstructed (i.e. blocked line of sight from intervening structures or topography) recommended screening distances used to delineate the study areas for the operational airborne noise analysis.

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Table G-1. FTA Noise Source Recommended Screening Distances

Noise Source	FTA Project Type	Screening Distance (feet)	
		Unobstructed	Obstructed
No Action and Proposed Action supplemental busing to support overcrowded existing AirTrain system	Access Roads	100	50
AirTrain System	Low and Intermediate Capacity Transit System with Steel Wheels	125	50

Source: Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, page 35.

Screening distances for access roads were measured from roadway centerlines on No Action and Proposed Action Alternatives supplemental busing routes. Screening distances from the replacement AirTrain system were measured from proposed track centerline. The replacement AirTrain system is an automated people mover (APM), which FTA considers to be an Automated Guideway Transit (AGT) system. In general, AGTs are categorized by FTA as Low – and Intermediate Capacity Transit project types. Three technologies are being considered, which include a Steel Wheel APM, Rubber Tire APM, and Cable-Propelled APM. In general, steel wheel technologies have higher source noise levels and have the potential to be louder than the rubber-tired technology due to ‘wheel squeal’ produced through curves. Conservatively, the replacement AirTrain system was screened assuming the system would possess steel wheel vehicles.

Table G-2 summarizes the noise sensitive receiver locations identified within the applicable FTA recommended screening distances, the FTA Noise Land Use Category of each receiver, the alternative and noise source for which impacts were assessed, and distance to noise source. Despite not being located within the applicable FTA recommended screening distances, the Newark Liberty International Airport Marriott was included in the operational noise assessment of the replacement AirTrain system, as the greatest shift in the alignment, relative to the existing condition, would occur adjacent to this hotel. Noise sensitive receivers and the two noise study area boundaries within which these receivers are located (supplemental busing access roads and replacement AirTrain system) are illustrated in **Figure G-1**.

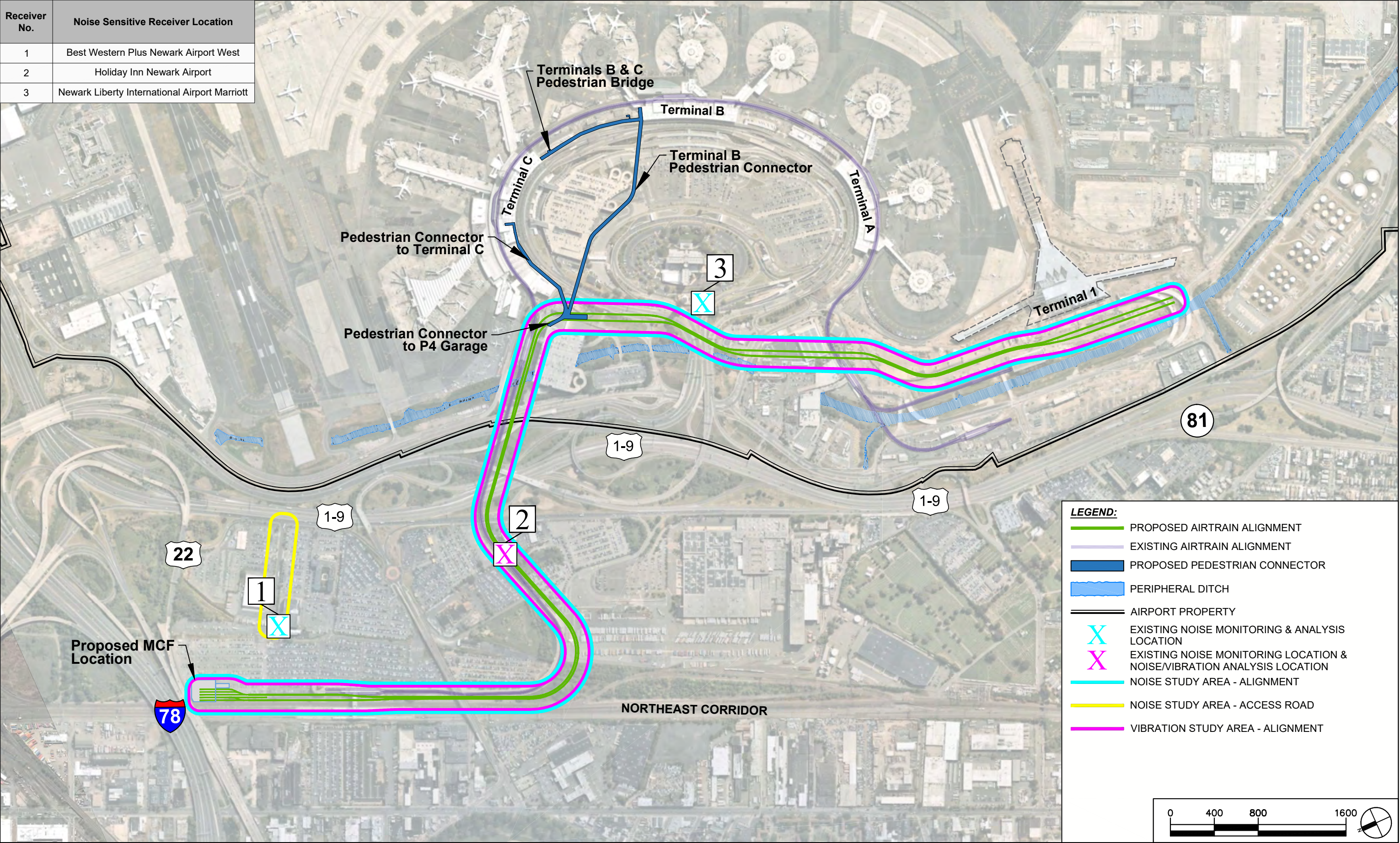
Table G-2. Operational Noise Screening Results

Receiver No.	Receiver Location	FTA Land Use Category	Alternative (Noise Source)	Distance To Noise Source (ft)
1	Best Western Plus Newark Airport West	2	No Action & Proposed Action (supplemental busing to support overcrowded existing AirTrain system)	35
2	Holiday Inn Newark Airport	2	Proposed Action (AirTrain – Low and Intermediate Capacity Transit System w/ Steel Wheels)	48
3	Newark Liberty International Airport Marriott	2	Proposed Action (AirTrain – Low and Intermediate Capacity Transit System w/ Steel Wheels)	348

Note: Although it is outside of the screening distance for the guideway, the Newark Liberty International Airport Marriott was included due to the shift in the proposed alignment closer to the hotel, relative to the existing alignment, by approximately 890 feet.

Source: Paul Carpenter Associates, Inc., 2020.

Receiver No.	Noise Sensitive Receiver Location
1	Best Western Plus Newark Airport West
2	Holiday Inn Newark Airport
3	Newark Liberty International Airport Marriott



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GROUND-BORNE NOISE AND VIBRATION ANALYSIS METHODOLOGY

Three types of vibration-sensitive land use are identified within FTA's guidance document, which include:

Vibration Category 1: High Sensitivity – Buildings where low ambient vibration is essential for the operations within the building, which may be well below levels associated with human annoyance. Typical land uses are vibration-sensitive research and manufacturing, hospitals, and university research operations.

Vibration Category 2: Residential – This category covers all residential land uses and any buildings where people sleep, such as hotels and hospitals. No differentiation is made between different types of residential areas. This is primarily because ground-borne vibration and noise are experienced indoors and building occupants have practically no means to reduce their exposure. Even in a noisy urban area, the bedrooms often will be quiet in buildings that have effective noise insulation and tightly closed windows. Hence, an occupant of a bedroom in a noisy urban area is likely to be just as sensitive to ground-borne noise and vibration as someone in a quiet suburban area.

Vibration Category 3: Institutional – This category includes schools, churches, other institutions, and quiet offices that do not have vibration-sensitive equipment, but still have the potential for activity interference. This category is not intended to include industrial buildings with office space primarily used for industrial purposes.

The FTA's guidance manual also establishes ground-borne vibration limits for a set of land use types, which are extremely sensitive to vibrations and do not fit into the three vibration land use categories. These land use types are referred to as "special buildings" and include concert halls, television studios, recording studios, auditoriums and theaters.

Similar to airborne noise, FTA's guidance document also includes recommended screening distances to define the ground-borne noise and vibration study area, which are based on project type. However, once the project type is identified, screening distances are subsequently defined for the three categories of vibration sensitive receivers. FTA guidance states that concert halls and television studios/recording studios that are classified as "special buildings" should be screened as Vibration Category 1 land use, while theaters and auditoriums should be screened as Vibration Category 2 land use.

Based on FTA guidance, rubber tires and suspension systems of buses provide vibration isolation, and it is therefore unlikely for such vehicles to cause ground-borne noise and vibration impacts. Therefore, no study area was delineated for supplemental bus routes under the 2031 No Action or Proposed Action Alternatives.

The project type for ground-borne noise and vibration screening of the replacement AirTrain system under the Proposed Action Alternative was classified as Intermediate Capacity Transit, and the most conservative technology (Steel Wheel APM), with the greatest potential to generate vibration impacts, was screened. Based on FTA's guidance document, projects which involve rubber tire vehicles are unlikely to cause vibration impact, except in unusual situations (e.g. when a project results in an alignment through or underneath vibration-sensitive buildings); therefore, operational ground-borne noise and vibration impacts are not anticipated in the event the replacement AirTrain system has rubber tires. **Table G-3** includes the FTA's recommended vibration screening distances for an Intermediate Capacity Transit project for each vibration land use category.

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Table G-3. FTA Recommended Screening Distances for Ground-borne Noise and Vibration of Intermediate Capacity Transit Projects

Vibration Land Use Category	Screening Distance (feet)
Category 1: Buildings where vibration will interfere with interior operations	200
Category 2: Residences and buildings where people normally sleep	100
Category 3: Institutional land uses with primarily daytime use	50

Source: Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018, page 136.

Table G-4 summarizes the results of the ground-borne noise and vibration screening. All distances were measured from proposed track centerline. Assuming concert halls and television studios/recording studios are Vibration Category 1 land use, and theaters and auditoriums are Vibration Category 2 land use, there are no such buildings within applicable FTA recommended vibration screening distances. However, one hotel (Holiday Inn Newark Airport), classified as Vibration Category 2 land use, is located within the 100-foot screening distance of the replacement AirTrain system (48 feet from track centerline). The ground-borne noise and vibration study area and vibration sensitive receiver location identified within the applicable FTA recommended screening distance are illustrated in **Figure G-1**. Consistent with FTA guidance, a ground-borne noise and vibration FTA General Assessment was performed at the Holiday Inn Newark Airport.

Table G-4. 2031 Proposed Action Alternative FTA Ground-Borne Noise and Vibration Screening Results – AirTrain System

Receiver No.	Receiver Location	Distance To Track Centerline (ft)	Ground-Borne Noise And Vibration Analysis Required?
2	Holiday Inn Newark Airport	48	YES

Source: Paul Carpenter Associates, Inc., 2020.

EXISTING CONDITIONS

Based on the noise screening results, two noise study areas were identified, all of which include noise sensitive receivers classified as FTA Noise Category 2. FTA characterizes the existing noise environment for this land use category based on the day-night average sound level (L_{dn}). The L_{dn} is a measure of noise exposure over a 24-hour day, where a 10-decibel (dB) penalty is applied to all noise events occurring during nighttime hours (i.e. 10:00 PM to 7:00 AM) to account for the increased sensitivity.

All noise levels in this analysis are based on the 24-hour L_{dn} and reported in A-weighted decibels (dBA), representing a scale that approximates human hearing. Since decibels are based on a logarithmic scale, doubling a noise source equates to a 3 dB increase in the sound or noise level (e.g. 60 dB + 60 dB = 63 dB). Under normal circumstances, a 3 dB change in noise levels is required for the average person to detect a difference without the use of instruments. A noise level change of 5 dB is considered a noticeable change. A decrease in 10 dB is perceived by the average listener as a reduction of noise by one-half, while an increase in 10 dB is discerned as a doubling of noise levels.

Continuous 24-hour noise monitoring was performed at the three noise sensitive receiver locations identified within the supplemental busing and replacement AirTrain system study areas to identify existing noise exposure levels, pursuant to FTA guidance. Noise measurements at Site 1 (Best Western Plus Newark Airport West) were performed from March 11, 2019 to March 18, 2019 and from March 29, 2019 to April 2, 2019 near the No Action and Proposed Action Alternatives supplemental busing routes on International Way. Noise measurements at Site 2 (Holiday Inn Newark Airport) were performed from May 11, 2018 to May 14, 2018 and again from May 30, 2018 to June 15, 2018 in order to exclude abnormal vehicular traffic patterns during the

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Memorial Day holiday period. At Site 3 (Newark Liberty International Airport Marriott), noise measurements were performed from July 24, 2017 to July 31, 2017 under a separate PANYNJ contract. Noise monitoring locations are depicted in **Figure G-1**.

Noise monitoring data was reviewed and filtered for periods of AirTrain service disruptions, determined from the Newark Liberty International Airport Twitter page, as well as during precipitation events and periods of high winds and relative humidity, which exceed noise monitoring equipment tolerances. Weather filters are based on National Oceanic and Atmospheric Administration (NOAA) certified meteorological data for Newark Liberty International Airport. Noise monitor calibration certificates, site photos, and certified NOAA meteorological data are included within **Attachment G-1**.

Both weekday and weekend existing noise exposure levels (dBA L_{dn}) were determined for all sites. Weekday noise exposure levels represent an average based on long-term noise monitoring data documented on Tuesdays, Wednesdays and Thursdays during the monitoring period, while weekend noise exposure levels represent an average based on long-term noise monitoring data documented on multiple Saturdays and Sundays. **Table G-5** summarizes documented existing noise exposure levels.

Table G-5. Existing Noise Exposure Levels (dBA L_{dn})

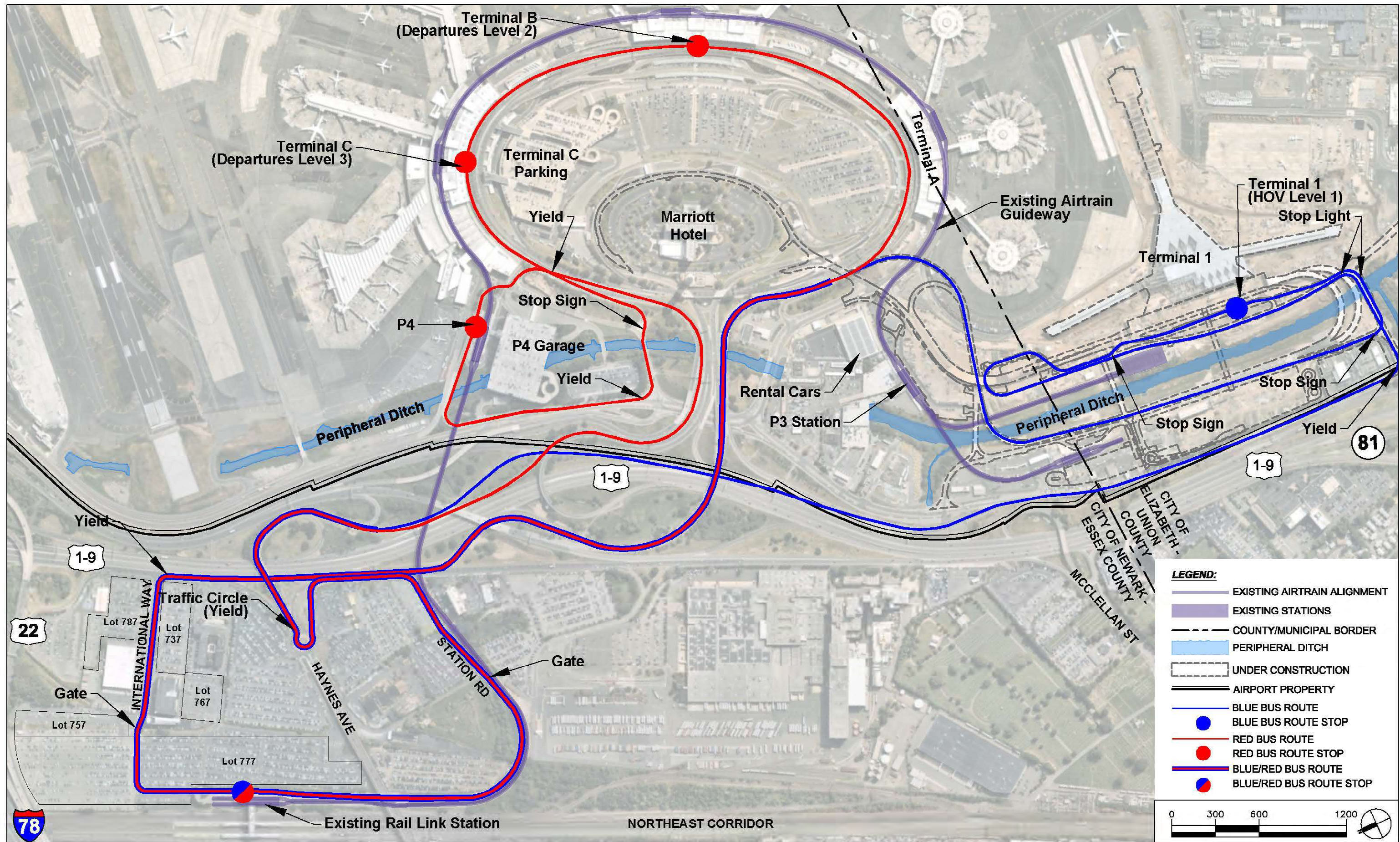
Site No.	Site Location	Weekday Noise Exposure Level	Weekend Noise Exposure Level
1	Best Western Plus Newark Airport West	66	65
2	Holiday Inn Newark Airport	66	67
3	Newark Liberty International Airport Marriott	72	72

Note: Noise measurements at Site 3 were performed under a separate PANYNJ contract on the lower roof of the EWR Air Traffic Control Tower and are representative of noise levels at the Newark Liberty International Airport Marriott.
Source: Paul Carpenter Associates, Inc. 2017, 2018, 2019.

NO ACTION ALTERNATIVE

Supplemental busing is necessary to transport AirTrain overflow riders from the Rail Link Station to various locations at the Airport beginning in 2022 when the system is expected to reach capacity. Supplemental busing would be provided on two routes and include travel along International Way, Station Road, US Route 1/9, Brewster Road, Martin Road, Pitcairn Road as well as on-airport roadways (see **Figure G-2**). The two bus routes overlap each other in the vicinity of the Rail Link Station and separate near existing Terminal A, such that one route provides access to/from Terminal One, while the other Route travels to/from Terminal B, Terminal C and the P4 parking garage. The route bound for Terminal One would operate a maximum of approximately six buses per hour, while the other route would operate a maximum of approximately 18 buses per hour in year 2031 if the Proposed Action is not constructed.

General Noise Assessment equations provided within FTA's guidance document for evaluating noise exposure from access roads were utilized to perform the supplemental busing noise impact analysis for the No Action Alternative. Necessary inputs to the equations include reference source noise levels for diesel buses at 50 feet, distance from noise sensitive receivers to access roadway centerline, number of buses per hour during FTA daytime (7:00 AM to 10:00 PM) and nighttime (10:00 PM to 7:00 AM) hours, and travel speeds.



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Since both transit routes overlap along International Way to/from the Rail Link Station, the maximum number of buses per hour from each travel route was added to yield a total of approximately 24 buses per hour. This combined hourly bus volume was used within FTA equations to calculate supplemental busing-related noise exposure levels at the Best Western Plus Newark Airport West. Since buses would only be necessary during peak AirTrain hours (i.e. from 12:00 PM – 8:00 PM), no buses would operate during FTA nighttime hours (i.e. 10:00 PM – 7:00 AM). Buses were assumed to travel at a speed of 25 mph on International Way.

Supplemental busing under the No Action alternative would result in a noise exposure level of 55 dBA L_{dn} . This level is 10 dBA less than existing noise exposure levels at the hotel (66 dBA L_{dn} on weekdays and 65 dBA L_{dn} on weekends). Therefore, supplemental busing has no cumulative effect on the total noise level at the Best Western, and No Action Alternative noise exposure levels with supplemental busing would remain the same as under the existing condition. No noise impacts would occur as a result of the operation of the No Action Alternative. Results are summarized in **Table G-6**. Calculation worksheets are provided within **Attachment G-2**.

**Table G-6. 2031 No Action Alternative FTA General Airborne Noise Assessment Results –
Supplemental Busing**

Receiver No.	Receiver Description	Time Period	Existing Noise Exposure Level (dBA L_{dn})	No Action Noise Exposure Level (dBA L_{dn})	Noise Level Increase (dB)	Allowable Noise Level Increase (dB)	Impact Level
1	Best Western Plus Newark Airport West	WD	66	66	0	1	None
		WE	65	65	0	1	None

Note: No Action noise exposure levels represent the supplemental busing noise exposure contribution added to the existing noise exposure. Since supplemental busing noise levels are 10 dB or greater less than existing noise exposure, there would be no change in existing noise exposure under the 2031 No Action alternative.

Source: Paul Carpenter Associates, Inc., 2020.

PROPOSED ACTION

AIRBORNE NOISE ASSESSMENT

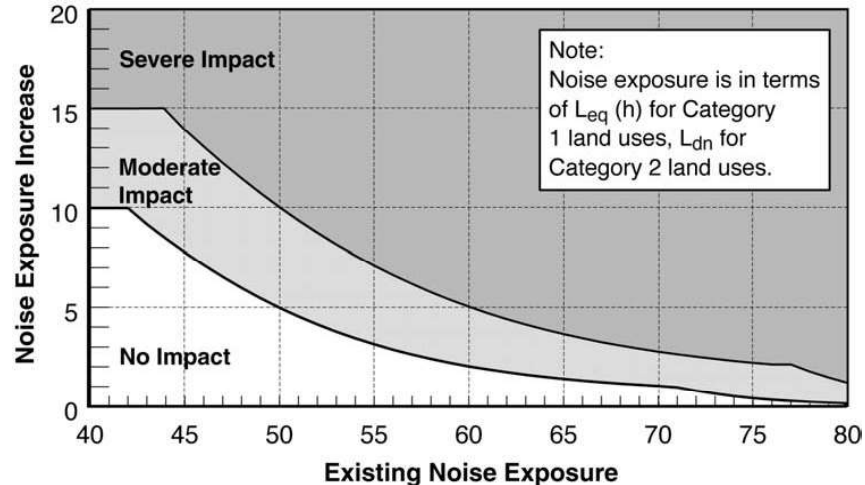
The FTA guidance document evaluates impacts to noise-sensitive land uses based on two criteria, which both depend on the level of existing noise exposure. The first criterion is applicable to new projects constructed in an area previously without a transit noise source¹. The second criterion is used to assess cumulative noise impacts for projects which modify an existing transit system, like the Proposed Action. Normally, the FTA's guidance document determines a cumulative noise level by adding project noise levels to existing noise levels. However, the Proposed Action will result in a change to existing noise levels, due to the new location of the replacement AirTrain alignment. Therefore, it is not possible to define project noise separately from existing noise. To accurately assess noise impacts for projects where the existing noise levels change as a result of the project, the FTA's guidance document indicates that projected noise exposure should be directly compared to existing noise exposure to determine anticipated levels of noise increase.

Allowable levels of noise increase are identified by plotting the existing noise exposure on the curves in the following graph within FTA's guidance document (see **Figure G-3**).

¹ See Figure 4-2 and Table 4-5 of the FTA's guidance document for further details.

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Figure G-3. Increase in Cumulative Noise Levels Allowed by Criteria



Source: Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018, Figure 4-3.

Table G-7 summarizes the existing noise exposure levels and the allowable noise level increases (i.e. equal to and below which no noise impact would occur) for the three noise sensitive receivers identified within the Proposed Action replacement AirTrain alignment and supplemental busing study areas (see **Figure G-1**).

Table G-7. FTA Airborne Noise Impact Thresholds

Receiver No.	Receiver Location	Time Period ²	Existing Noise Exposure Level (dBA L _{dn})	Allowable Noise Level Increase (dB) ³
1	Best Western Plus Newark Airport West	WD	66	1
		WE	65	1
2	Holiday Inn Newark Airport	WD	66	1
		WE	67	1
3	Newark Liberty International Airport Marriott ¹	WD	72	0
		WE	72	0

¹ – Noise measurements at Site 3 were performed under a separate PANYNJ contract on the lower roof of the EWR Air Traffic Control Tower and are representative of noise levels at the Newark Liberty International Airport Marriott.

² – ‘WD’ – Weekday; ‘WE’ – Weekend.

³ – Allowable noise level increases are based on Figure 4-3 within FTA’s Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018 and represent the maximum noise level increase for no impact to occur.

Source: Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018 and Paul Carpenter Associates, Inc. (2020).

FTA’s guidance document identifies two types of impacts, which include “moderate” and “severe”. FTA defines “moderate” impact to be a cumulative noise level increase which is noticeable to most people but may not be sufficient enough to cause strong, adverse community reactions, while a “severe” impact is defined as a cumulative noise level increase which would cause a significant percentage of people to be highly annoyed by the change in the noise environment (Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018).

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Assumptions and analysis results for each noise source associated with the Proposed Action are discussed below:

Proposed Action – AirTrain System

General Noise Assessment equations provided within FTA’s guidance document for evaluating noise exposure from an AGT system, like the replacement AirTrain system, were utilized to perform the operational noise impact analysis. Necessary inputs to the equations include reference source noise levels at 50 feet, distance from noise sensitive receiver locations to proposed track centerline, number of events per hour during FTA daytime (7:00 AM to 10:00 PM) and nighttime (10:00 PM to 7:00 AM) hours, number of rail cars and proposed speeds.

The replacement AirTrain system would operate under three service modes: 1) peak service from 11:00 AM – 8:00 PM, 2) off-peak service from 5:00 AM – 11:00 AM and 8:00 PM – 12:00 AM, and 3) nightly maintenance with service from 12:00 AM – 5:00 AM. On both weekdays and weekends, service periods and headways would remain the same. Specifically, during peak service, the system would operate with 3-minute headways, thereby resulting in 20 trains per hour. During off-peak service and nightly maintenance periods, the system would run with 4-minute headways, thereby resulting in 15 trains per hour. As such, during FTA daytime hours (7:00 AM – 10:00 PM), there would be an average of 18 trains per hour, equating to an average of 36 events (i.e. passbys) per hour to account for roundtrip travel to/from the AirTrain’s point of origin at the Rail Link Station. Similarly, during FTA nighttime hours (10:00 PM – 7:00 AM), there would be an average of 15 trains per hour, equating to an average of 30 events per hour (i.e. passbys).

The proposed AirTrain system would have a maximum of three cars per train and travel at a maximum speed of 45 mph; however, directly adjacent to the Holiday Inn Newark Airport, the proposed AirTrain speed would be slower due to the curvature in the alignment just west of the hotel and just east of the hotel near U.S. Route 1/9. A maximum speed of 32 mph would be reached adjacent to the Holiday Inn Newark Airport when the train is traveling eastbound from the Rail Link station. During its passby of the Newark Liberty International Airport Marriott, the train speed was assumed to be 45 mph, since much of the alignment is straight in this section. Distances to track centerline were identified for screening purposes (see **Table G-2**) and used as inputs for the FTA General Noise Assessment. Reference sound exposure levels at 50 feet for steel wheel vehicles on an AGT system, like the proposed AirTrain system, were obtained from FTA’s guidance document.

Proposed Action – Supplemental Busing

Since the existing AirTrain system is expected to reach capacity, beginning in 2022, supplemental busing would also be necessary under the Proposed Action alternative during construction and testing of the replacement AirTrain system (2022 to January 2026). Once the replacement AirTrain system is brought into revenue service, supplemental busing would no longer be needed. As aforementioned, the route bound for Terminal One would operate a maximum of approximately six buses per hour, while the other route would operate a maximum of approximately 12 buses per hour in year 2026, just prior to the completion of construction and testing of the replacement AirTrain system. Therefore, the total combined volume of 18 buses per hour was used within FTA equations. Similar to the No Action alternative, busing-related noise exposure levels at the Best Western Plus Newark Airport West would be 10 dB less than existing noise exposure levels; therefore, supplemental busing has no cumulative effect on the total noise level at the hotel, and no noise impacts will occur as a result of supplemental busing.

The Proposed Action alternative would not result in operational noise impacts due to the new AirTrain system or supplemental busing necessary to transport overflow AirTrain riders until the new system is put into revenue service in January 2026, as presented in **Table G-8** and **Table G-9**, respectively. All calculation worksheets are provided in **Attachment G-2**.

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Table G-8. FTA General Airborne Noise Assessment Results – AirTrain System

Receiver No.	Receiver Description	Time Period	Existing Noise Exposure Level (dBA L _{dn})	Future Noise Exposure Level (dBA L _{dn})	Noise Level Increase (dB)	Allowable Noise Level Increase (dB)	Impact Level
2	Holiday Inn Newark Airport	WD	66	67	1	1	None
		WE	67	67	0	1	None
5	Newark Liberty International Airport Marriott	WD	72	61	0	0	None
		WE	72	61	0	0	None

Source: Paul Carpenter Associates, Inc., 2020.

Table G-9. FTA General Airborne Noise Assessment Results – Supplemental Busing

Receiver No.	Receiver Description	Time Period	Existing Noise Exposure Level (dBA L _{dn})	Future Noise Exposure Level (dBA L _{dn})	Noise Level Increase (dB)	Allowable Noise Level Increase (dB)	Impact Level
1	Best Western Plus Newark Airport West	WD	66	66	0	1	None
		WE	65	65	0	1	None

Note: Proposed Action noise exposure levels represent the supplemental busing noise exposure contribution added to the existing noise exposure. Since supplemental busing noise levels are 10 dB or greater less than existing noise exposure, there would be no change in existing noise exposure related to supplemental busing under the Proposed Action alternative.

Source: Paul Carpenter Associates, Inc., 2020.

GROUND-BORNE NOISE AND VIBRATION ASSESSMENT

Ground-borne vibration is expressed in terms of vibration velocity levels in units of VdB, while ground-borne noise is expressed in terms of decibels (dB). The criteria used to evaluate ground-borne noise and vibration impacts depend on the number of events of the same source per day. FTA categorizes events as frequent, occasional, and infrequent. **Table G-10** summarizes the FTA's ground-borne vibration and noise impact criteria for each event and Vibration Land Use Category.

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Table G-10. FTA Ground-Borne Vibration (GBV) and Ground-Borne Noise (GBN) Impact Criteria for General Assessment

Vibration Land Use Category	GBV Impact Levels (VdB re 1 micro-inch/sec)			GBN Impact Levels (dB re 20 micro Pascals)		
	Frequent Events ¹	Occasional Events ²	Infrequent Events ³	Frequent Events ¹	Occasional Events ²	Infrequent Events ³
1	65	65	65	N/A ⁴	N/A ⁴	N/A ⁴
2	72	75	80	35	38	43
3	75	78	83	40	43	48

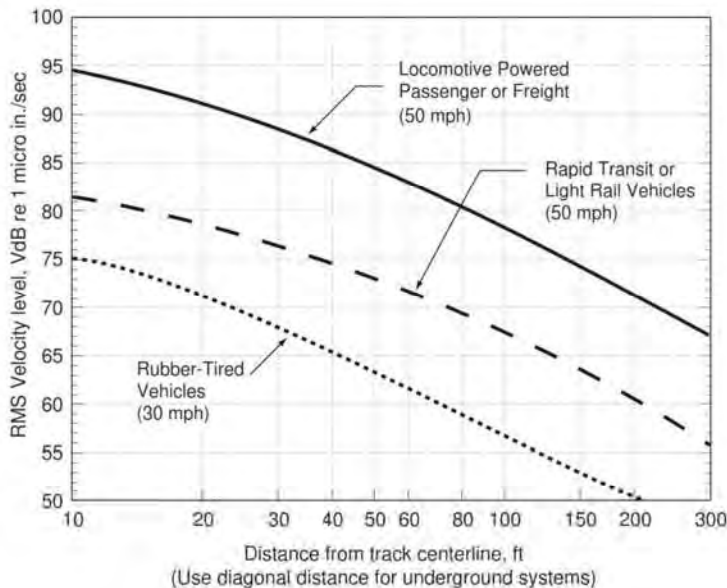
Notes:

1. "Frequent Events" is defined as more than 70 vibration events of the same source per day.
2. "Occasional Events" is defined as between 30 and 70 vibration events of the same source per day.
3. "Infrequent Events" is defined as fewer than 30 vibration events of the same kind per day.
4. This criterion limit is based on levels that are acceptable for most moderately sensitive equipment such as optical microscopes. Vibration-sensitive manufacturing or research will require detailed evaluation to define the acceptable vibration levels.
5. Vibration-sensitive equipment is generally not sensitive to ground-borne noise.

Source: Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018, Table 6-3.

As discussed within the noise section, the number of events per day would be greater than 70, due to the number of events per hour during FTA daytime and nighttime periods; therefore, predicted ground-borne vibration and noise levels were compared to criteria for frequent events. The General Vibration Assessment is an extension of the vibration screening procedure. The analysis estimates project vibration levels based on ground surface vibration curves as a function of distance to track, as illustrated within **Figure G-4**. Adjustment factors related to the vibration source, path and receiver are applied to values obtained from the curves.

Figure G-4. Generalized Ground Surface Vibration Curves



Source: Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018, Figure 6-4.

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Based on FTA’s guidance, the Rapid Transit or Light Rail Vehicles curve should be utilized for Intermediate Capacity Transit or AGT systems, like the replacement AirTrain system. Distances identified under screening procedures were used to determine preliminary vibration velocity levels at a reference speed of 50 mph from the FTA ground surface vibration curves. Subsequently, a speed adjustment equation provided in FTA’s guidance manual was utilized to adjust the vibration velocity levels at each vibration sensitive receiver location for a proposed speed of 32 mph, consistent with the airborne noise assessment.

In addition to adjusting for speed, a reduction factor of -10 dB was applied for an elevated transit structure. Without detailed information on site geologic conditions, the analysis assumes a worst-case vibration propagation condition, and therefore a factor of 10 dB was added for efficient propagation through the soil between source and receiver. A coupling loss factor of -10 dB was assumed for large masonry buildings on piles, and a 6 dB increase for amplification due to resonances of floors, walls and ceilings was added. Predicted ground-borne vibration levels, incorporating all described adjustment factors, were subsequently converted to ground-borne noise levels, assuming the peak frequency of vibration is typical (peak 30 to 60 Hz), and thereby subtracting a factor of 35 dB, in accordance with FTA guidance.

Results of the Proposed Action Alternative FTA General Ground-Borne Noise and Vibration Assessment for the proposed AirTrain System are presented in **Table G-11**. All supportive calculation worksheets for the ground-borne noise and vibration assessment are provided in **Attachment G-2**.

Table G-11. FTA General Ground-Borne Noise and Vibration Assessment Results – AirTrain System

Receiver No.	Receiver Description	Distance To Track Centerline (ft)	Predicted Ground-Borne Vibration Level (VdB)	Predicted Ground-Borne Noise Level (dB)	Ground-Borne Vibration Impact?	Ground-Borne Noise Impact?
2	Holiday Inn Newark Airport	48	66	31	NO	NO

Source: Paul Carpenter Associates, Inc., 2020.

As shown in **Tables G-8, G-9, and G-11**, airborne noise, ground-borne noise, and vibration levels are predicted to be below all applicable FTA impact thresholds at the three noise and vibration sensitive receivers evaluated. As such, no further analyses are necessary, and no operational transit-related impacts are anticipated from implementation of the Proposed Action.

CONSTRUCTION NOISE AND VIBRATION

According to the Draft Conceptual Construction Schedule (Appendix I), construction of the Proposed Action, from notice-to-proceed to demolition of the existing AirTrain, would occur over approximately 5.5 years (June 2021 to October 2026). Construction activities with the greatest potential to generate noise and/or vibration impacts would occur during four phases: 1) AirTrain Guideway and Stations (substructure and superstructure), 2) Pedestrian Bridges, 3) MCF, and 4) Demolition of the Existing AirTrain Guideway and Associated Infrastructure. Descriptions of these phases, including anticipated construction activities, typical equipment utilized and equipment quantities per crew, are provided in **Table G-12**.

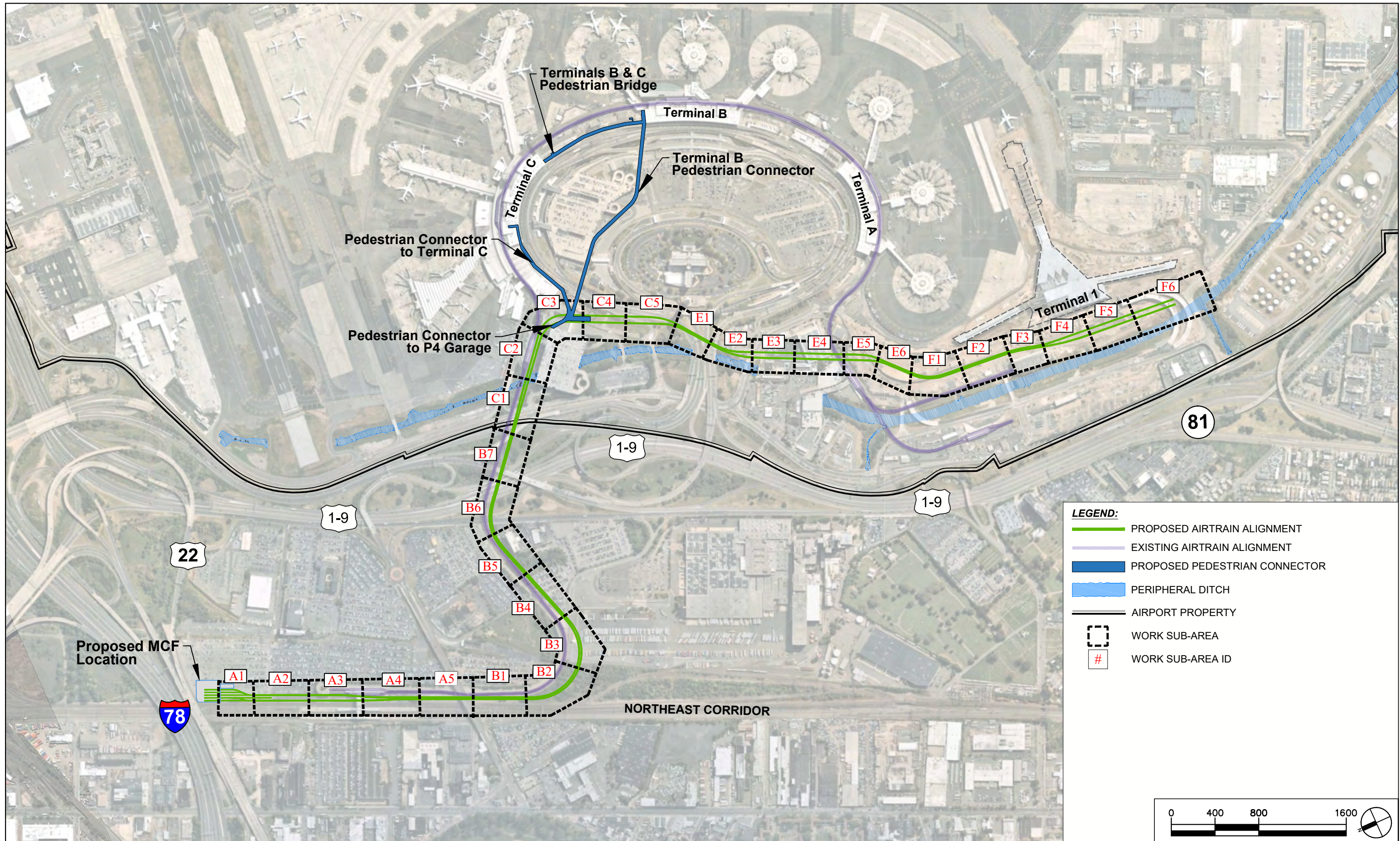
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Table G-12. Construction Scenarios Per Crew – AirTrain Guideway and Stations, Pedestrian Bridges, MCF, Existing AirTrain Demolition

Construction Phase (Task)	Description	Heaviest Operation(s)	Equipment Types	Typical Equipment Quantity Per Crew
AirTrain Guideway and Station Construction (Substructure)	Includes foundation work at each guideway and station pier location for the Preferred Alignment.	Drive/Extract Sheets	Vibratory Hammer	1
		Drive Piles (Steel)	Diesel Impact Hammer	1
		Installation of Pile Caps, Pier Caps, Columns	Concrete Pump Truck Concrete Mixer Truck	1 3
AirTrain Guideway and Station Construction (Superstructure)	Includes superstructure construction (installation of grade beams and slab on grade, or pouring concrete deck; installation of girders)	Concrete Work for Grade Beams, Slab on Grade, Deck	Concrete Pump Truck Concrete Mixer Truck	1 3
		Drive/Extract Sheets for grade beams	Vibratory Hammer	1
		Girder Installation	Crane Flatbed Truck	1 1
Pedestrian Bridges	Includes foundation and superstructure work for each pedestrian bridge connecting Station 3 to Terminals B and C and between Terminals B and C.	Drive/Extract Sheets	Vibratory Hammer	1
		Drive Piles (Steel)	Diesel Impact Hammer	1
		Installation of Pile Caps, Pier Caps, Columns, Slab on grade	Concrete Pump Truck Concrete Mixer Truck	1 3
MCF	Includes foundation work, grade beams and slab on grade construction.	Drive/Extract Sheets	Vibratory Hammer	2
		Drive Piles (Steel)	Diesel Impact Hammer	2
		Concrete Work for Grade Beams, Slab on Grade	Concrete Pump Truck Concrete Mixer Truck	1 3
Demolition of Existing AirTrain Guideway and Associated Infrastructure	Removal of the existing AirTrain system guideway and associated structures and the existing MCF.	Demolition	Hoe Ram Dump Truck	1 3

Source: Paul Carpenter Associates, Inc. (2020).

The schedule breaks down construction of the replacement AirTrain system into five main work areas (A, B, C, D, E, and F), which are further subdivided into work sub-areas. The MCF work area is separate from the AirTrain system work areas. All work areas are illustrated in **Figure G-5**. The schedule was reviewed to identify limits of work within which potential noise and/or vibration impacts would occur from single or multiple concurrent operations.



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The primary construction shift generally will be from 7:00 AM to 4:00 PM, Monday through Saturday, with the exception of holidays. However, some construction activities will occur during 12-hour weekend shifts (Saturday and Sunday 6:00 PM – 6:00 AM only), which include AirTrain guideway and crash wall construction activities over US Route 1/9 or directly adjacent to airport access roadways. Select piers associated with Station 3 are located adjacent to airport entrance/exit roadways but are not part of the 12-hour weekend schedule; therefore, Station 3 pier construction was assumed to occur during weekday FTA overnight periods (10:00 PM – 7:00 AM). Demolition activities were assumed to follow the same schedule of daytime and nighttime work as construction. It is anticipated that the work will be completed under a Design/Build agreement; therefore, details are subject to change.

The FTA’s guidance for evaluating potential construction noise impacts is primarily focused on stationary on-site sources (i.e. non-road sources). In accordance with FTA’s Construction General Noise Assessment procedures, estimated construction noise levels for on-site sources are compared to both daytime (7:00 AM – 10:00 PM) and nighttime (10:00 PM – 7:00 AM) hourly equivalent noise level ($L_{eq(h)}$) limits established for residential, commercial, and industrial land use. FTA Construction General Noise Assessment criteria for the different land use types are presented in **Table G-13**.

Table G-13. FTA Construction Noise Impact Criteria for General Noise Assessment

Land Use	1-Hour L_{eq} (dBA) Daytime (7:00 AM – 10:00 PM)	1-Hour L_{eq} (dBA) Nighttime (10:00 PM – 7:00 AM)
Residential	90	80
Commercial	100	100
Industrial	100	100

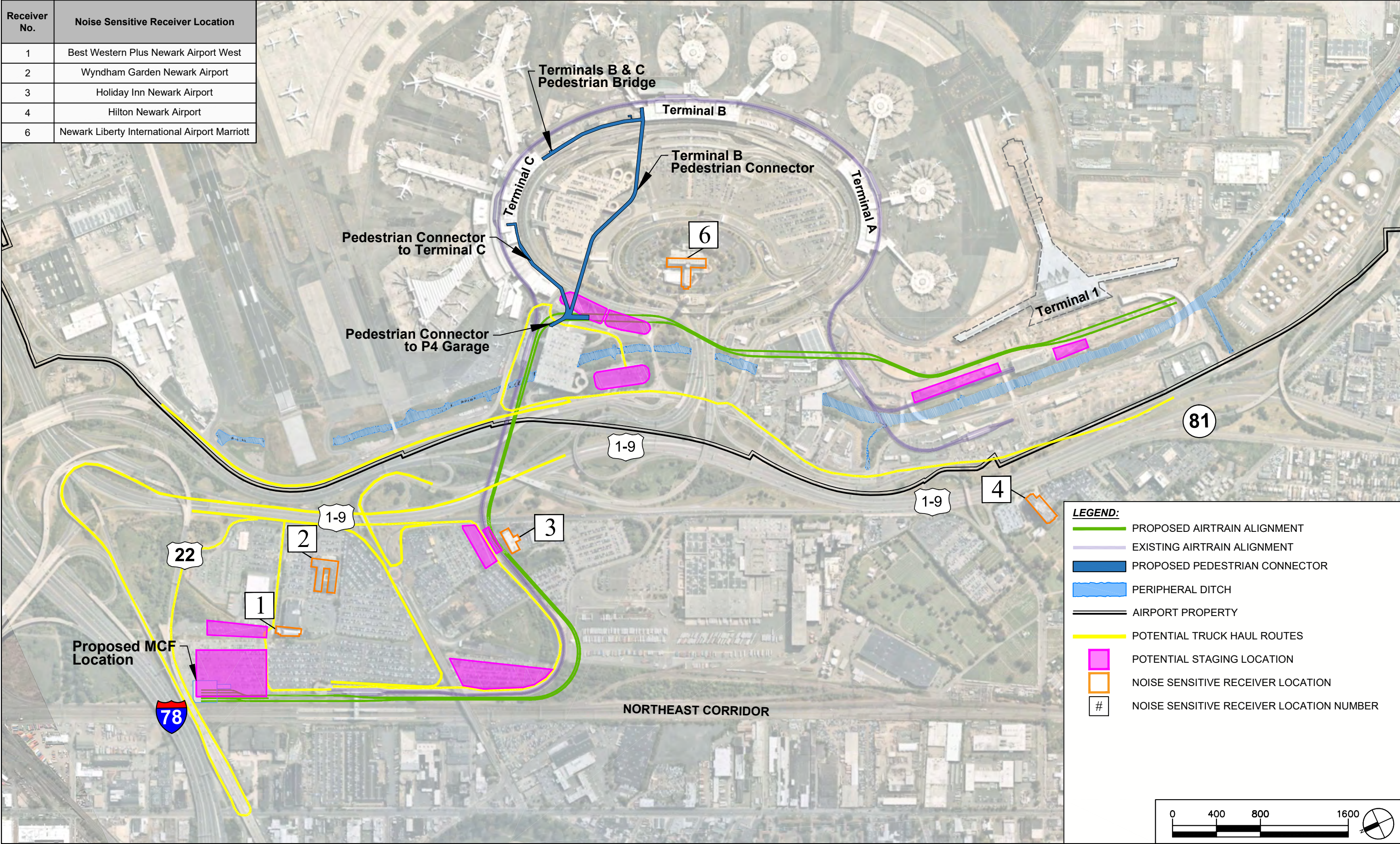
Source: Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018, Table 7-2.

Mobile sources of construction noise from materials deliveries and construction debris removal on designated haul routes may result in additional truck traffic past noise sensitive receivers. Therefore, off-site construction noise sources from these truck trips were also addressed. Impact from off-site sources was assessed based on whether the increased truck traffic would result in a perceivable (i.e., 3 dB) change in noise levels. Designated haul routes and noise analysis locations are illustrated in **Figure G-6**.

Construction Noise – On-Site Sources

FTA General Noise Assessment procedures related to evaluation of construction-related airborne noise were applied, with some variations. Specifically, the Federal Highway Administration’s (FHWA) Roadway Construction Noise Model (RCNM) includes a more comprehensive database of equipment than the FTA’s guidance manual. The RCNM database includes field-measured reference noise emission levels with realistic acoustic usage factors for each piece of equipment (as opposed to assuming continuous operation of equipment for a full hour as typically assumed under FTA’s General Assessment) and is acceptable for use with FTA construction noise analyses. Equations provided within FTA’s guidance document and RCNM are generally similar and therefore were executed in a spreadsheet tool to perform construction analyses, using reference noise levels and the acoustic usage factors provided in RCNM’s database. Attenuation

Receiver No.	Noise Sensitive Receiver Location
1	Best Western Plus Newark Airport West
2	Wyndham Garden Newark Airport
3	Holiday Inn Newark Airport
4	Hilton Newark Airport
6	Newark Liberty International Airport Marriott



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due to ground effects and additional attenuation from shielding was ignored in order to perform a preliminary worst-case analysis. FTA's and FHWA's RCNM method for prediction of construction noise is computed based on using equation (1):

$$(1) Leq = E.L. + 10 \log(U.F.) - 20 \log\left(\frac{D}{50}\right) - 10G \log\left(\frac{D}{50}\right) - A_{\text{shielding}}$$

where:

Leq = Leq at receiver location resulting from operation of single piece of equipment over a specified time period

E.L. = reference equipment noise emission level (based on a Lmax at 50 ft)

U.F. = equipment usage factor (percentage of time that equipment is operating at full power over the specified time period)

D = distance between source and receiver (ft)

G = ground effects constant (zero for acoustically hard ground surface conditions)

A_{shielding} = attenuation provided by intervening buildings, barriers, etc.

The construction noise analysis of on-site sources was performed for the closest FTA noise-sensitive land use to construction activities. **Table G-14** provides details regarding noise sensitive receivers at which there is a potential for construction-related FTA noise impact significance thresholds to be exceeded. This table also summarizes locations of potential impact-causing activities (work sub-areas and piers), as well as the time of day the potential impact would occur and anticipated duration of the potential construction-related noise impacts.

Table G-14. Construction Noise: Summary of Potential Impacts

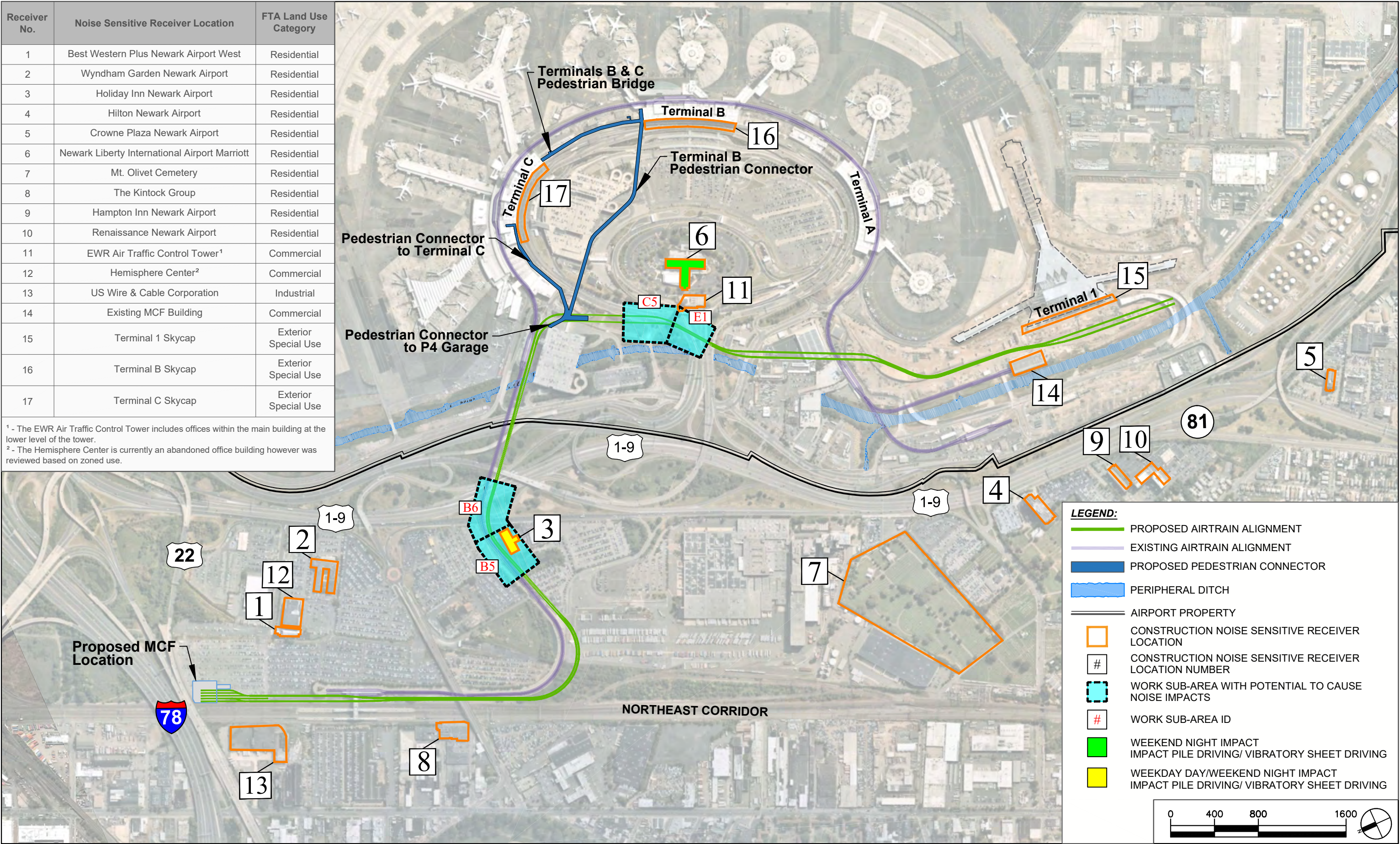
Receiver No.	Receiver Location (FTA Land Use Category)	Construction Phase (Task)	Work Sub-Areas	Pier Nos.	Construction Activity	Time Of Day of Poetntial Impact	Approx Duration of Potential Impact
3	Holiday Inn Newark Airport (Residential)	Guideway Construction (Substructure)	B5	B31, B32, B33	Impact Pile Driving Vibratory Sheet Driving	Weekday Daytime	6 weeks
		Guideway Construction (Substructure)	B6	B34, B35, B36, B37	Impact Pile Driving Vibratory Sheet Driving	Weekend Nighttime	3 months
6	Newark Liberty International Airport Marriott (Residential)	Guideway Construction (Substructure)	C5 E1	C18, C19, E1, E2	Impact Pile Driving Vibratory Sheet Driving	Weekend Nighttime	6 weeks

Source: Paul Carpenter Associates, Inc. (2020).

Figure G-7 presents all FTA noise sensitive land uses considered for the construction noise assessment as well as locations of potential construction noise impacts resulting from activities in specific work sub-areas. Demolition of the existing AirTrain guideway and associated structures is not anticipated to result in any construction-related noise impacts.

Receiver No.	Noise Sensitive Receiver Location	FTA Land Use Category
1	Best Western Plus Newark Airport West	Residential
2	Wyndham Garden Newark Airport	Residential
3	Holiday Inn Newark Airport	Residential
4	Hilton Newark Airport	Residential
5	Crowne Plaza Newark Airport	Residential
6	Newark Liberty International Airport Marriott	Residential
7	Mt. Olivet Cemetery	Residential
8	The Kintock Group	Residential
9	Hampton Inn Newark Airport	Residential
10	Renaissance Newark Airport	Residential
11	EWR Air Traffic Control Tower ¹	Commercial
12	Hemisphere Center ²	Commercial
13	US Wire & Cable Corporation	Industrial
14	Existing MCF Building	Commercial
15	Terminal 1 Skycap	Exterior Special Use
16	Terminal B Skycap	Exterior Special Use
17	Terminal C Skycap	Exterior Special Use

¹ - The EWR Air Traffic Control Tower includes offices within the main building at the lower level of the tower.
² - The Hemisphere Center is currently an abandoned office building however was reviewed based on zoned use.



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On-site exterior airport personnel (skycap) working curbside at Terminal One, Terminal B, and Terminal C were also considered noise sensitive. Since FTA does not address this type of land use in its guidance, skycap locations were addressed quantitatively by identifying maximum potential noise levels during construction activities. It was assumed that skycap personnel do not work during nighttime hours (10:00 PM – 7:00 AM). Terminal One skycap personnel were estimated to experience noise levels potentially as high as 74 dBA for approximately 5 months during guideway construction activities within Work Sub-areas F3, F4, and F5. Terminal B skycap personnel were estimated to experience noise levels potentially as high as 99 dBA for approximately 10 months during construction periods of pedestrian bridges. Terminal C skycap personnel were estimated to experience noise levels potentially as high as 72 dBA during 12-hour weekend construction activities, within Work Sub-areas C3 and C5, and noise levels potentially as high as 97 dBA during construction of pedestrian bridge connectors. All on-site construction noise calculation worksheets are provided in **Attachment G-3**.

Construction Noise – Off-Site Sources

Multiple potential haul routes have been identified for the delivery and haul-away of materials and construction debris, which would route truck traffic past noise sensitive receivers, including several nearby hotels. Routes around the terminal side of the airport, traveling past the Newark Liberty International Airport Marriott, were assumed to be for access to proximate staging areas, thereby resulting in truck traffic only during the beginning and end of shifts. However, haul routes along U.S. 1/9, Bessemer Street, International Way and Haynes Avenue would have the potential to increase truck traffic by a perceivable amount (i.e. 3 dB) at nearby hotels.

Nighttime periods are most sensitive for hotels due to the potential for sleep interference, and the lowest noise levels typically occur during overnight periods, as demonstrated by long-term noise level monitoring as part of the project. The overnight hour with the lowest noise level was identified for each hotel along potential haul routes, including the Best Western Plus Newark Airport, Holiday Inn Newark Airport, and the Newark Liberty International Airport Marriott.

The FHWA's Traffic Noise Model 2.5 (TNM2.5) was used to evaluate truck-related noise levels along haul routes. Based on equipment and crew forecasts provided for the Proposed Action, the total number of truck trips (in and out) per 8-hour shift was assumed to be 8 trips. These trips were split evenly amongst the haul routes from the west and from the east. Truck trips associated with the MCF construction were not included, since these project elements would only be constructed during daytime hours. The TNM2.5 run is included within **Attachment G-3**.

As shown in **Table G-15**, truck trips along potential haul routes would not result in perceivable changes (i.e., 3 dB) in noise levels at noise-sensitive receiver locations during the quietest hours of the day. Therefore, noise impacts from offsite construction-related airborne noise are not anticipated.

Table G-15. Haul Route Truck Traffic Noise Impact Results

Receiver No.	Receiver Location	Quietest Measured Background Level (dBA Leq(h))	Predicted Truck Noise Level (dBA Leq(h))	Total Noise Level (dBA Leq(h))	Increase Over Background (dB)	Perceivable Change In Noise Level Expected?
1	Best Western Plus Newark Airport West	55	52	57	2	NO
2	Wyndham Garden Newark Airport	53	44	54	1	NO
3	Holiday Inn Newark Airport	56	45	56	0	NO
4	Hilton Newark Airport	68	37	68	0	NO
6	Newark Liberty International Airport Marriott	63	33	63	0	NO

Source: Paul Carpenter Associates, Inc. (2020)

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Construction Vibration – Structural Damage and Annoyance

Based on FTA guidance, construction-induced vibration is recommended to be quantitatively assessed for activities such as pile driving, vibratory compaction, demolition, drilling and excavation proximate to the existing AirTrain infrastructure and other sensitive structures, as such activities have the greatest potential to generate vibration impacts. Therefore, construction-induced vibration impacts were evaluated for sheeting installation/extraction with a vibratory hammer, impact pile driving with a diesel hammer, and demolition activities utilizing an excavator-mounted hoe ram.

Structural damage is based on the peak particle velocity (PPV) of the vibrations in inches per second (in/sec), and the criteria for assessing damage potential is based on building material. FTA recommended structural damage criteria were used in this analysis to identify locations where there is the potential for vibration-induced structural damage during heavy construction activities such that those locations should be further evaluated during a project's final design phase. The Proposed Action will be completed under a Design/Build contract; therefore, details are subject to change, and it will be the responsibility of the Design/Build contractor to carefully evaluate construction methodologies in potential problem locations identified herein.

Table G-16, adapted from Table 6-8 of FTA's guidance manual, includes the FTA building categories, recommended associated damage thresholds, and the distance (in feet) to recommended damage thresholds for each building category from equipment that are expected to be utilized to construct the Proposed Action alternative, such as an impact pile driver, vibratory pile driver and hoe ram. Distances to recommended damage thresholds were conservatively calculated utilizing the upper range vibration source levels for impact and vibratory pile drivers. These distances were subsequently used to screen for structures at which there is a potential for FTA recommended structural damage criteria to be exceeded due to foundation work using impact and vibratory pile drivers as well as demolition with a hoe ram.

Table G-16. FTA Construction Vibration Damage Criteria and Distance to Potential Damage Threshold

Building Category	PPV (in/sec)	Distance To Potential Threshold (ft) ¹		
		Impact Pile Driver	Vibratory Pile Driver	Hoe Ram
I. Reinforced concrete, steel or timber (no plaster)	0.5	52	32	8
II. Engineered concrete and masonry (no plaster)	0.3	74	45	11
III. Non-engineered timber and masonry buildings	0.2	97	59	15
IV. Buildings extremely susceptible to vibration damage	0.12	136	84	20

Note:

1. Distances were calculated using the upper range source levels for impact and vibratory pile drivers.

Source: Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018, Table 7-5 and Paul Carpenter Associates, Inc. (2020)

The existing AirTrain guideway and stations as well as the existing Northeast Corridor (NEC) tracks (serving Amtrak and NJ Transit) and Rail Link Station, airport terminals, existing parking garages, and existing MCF were assumed to be Building Category I structures, which are buildings constructed of reinforced concrete, steel or timber (no plaster). Hotels, the Kintock Group residential building and other office buildings were assumed to be Category II structures, which are buildings constructed of engineered concrete and masonry (no plaster).

Potential vibration-induced annoyance is evaluated based on vibration velocity levels (Lv) measured in units of VdB. FTA recommended criteria for assessing the potential of annoyance due to construction-related vibrations are based on the vibration land use categories described within this technical report and are the same

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as the ground-borne vibration criteria (in VdB) presented in **Table G-8**. However, for the construction assessment, impact pile driving and hoe ramming activities were assumed to generate frequent vibration events due to the number of strikes necessary to drive piles and break concrete and other materials. Sheet piling installation with a vibratory hammer was assumed to generate infrequent vibration events since installation of each sheet would be considered one vibration event, and no more than 30 sheets per day was assumed in a single work area.

Reference source levels are utilized within equations (2) and (3), which are provided in the FTA’s guidance manual, to identify vibration velocity levels at nearby structures. Equation (2) was utilized to perform the construction vibration damage assessment and includes a factor “n” to account for the attenuation rate of vibrations through the ground in accordance with FTA procedures. The value of “n” may be varied if detailed soil information is known. An “n” value of 1.5 is representative of “competent soils” (including sand, sandy clays, silty clays, silts, gravel and weathered rock). Equation (3) was utilized to predict vibration velocity levels for the annoyance assessment.

$$(2) PPV_{equip} = PPV_{ref} * \left(\frac{25}{D}\right)^n; \text{ and}$$

$$(3) Lv(D) = Lv(25ft) - 30 \log \left(\frac{D}{25}\right)$$

where:

PPV_{ref} = reference vibration level in in/sec at 25 feet

D = distance between source and receiver (ft)

n = attenuation rate of vibrations through the ground

Structures at which FTA recommended structural damage thresholds would potentially be exceeded, and the specific activities and location of work that would cause potential structural damage threshold exceedances, are presented in **Table G-17**. **Figure G-8** illustrates locations at which FTA recommended structural damage thresholds would potentially be exceeded. Additionally, there is a potential for FTA recommended structural damage thresholds to be exceeded at the existing AirTrain guideway and associated infrastructure and existing NEC tracks (serving Amtrak and NJ Transit) and Rail Link Station when impact pile driving and vibratory sheet piling at any AirTrain guideway/station or pedestrian bridge piers within 52 feet and 32 feet, respectively.

Table G-17. Construction Vibration General FTA Assessment Results – Potential Structural Damage

Receiver No.	Structure	FTA Building Category	Construction Activity	Nearest Work Sub-Areas (Piers)
3	Holiday Inn Newark Airport	II.	Impact Pile Driving	B5 (B31, B32, B33)
			Vibratory Sheet Driving	B5 (B31 & B32)
19	Terminal B	I.	Impact Pile Driving	Pedestrian Bridges connecting Station 3 and Terminals B and between Terminals B and C (Columns within 52 feet of Terminal B)
			Vibratory Sheet Driving	Pedestrian Bridges connecting Station 3 and Terminal B and between Terminals B and C (Columns within 32 feet of Terminal B)
20	Terminal C	I.	Impact Pile Driving	C2, C3, Pedestrian Bridges connecting Station 3 to Terminal C and between Terminals B and C (C4, C5, C6), (C7 & C8), (Columns within 52 feet of Terminal C)

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Receiver No.	Structure	FTA Building Category	Construction Activity	Nearest Work Sub-Areas (Piers)
			Vibratory Sheet Driving	C2, C3, Pedestrian Bridges connecting Station 3 to Terminal C and between Terminal B and C (C6), (C7), (Columns within 32 feet of Terminal C)
21	P4 Parking Garage	I.	Impact Pile Driving	C2, C3, Pedestrian Bridge connecting Station 3 and P4 (C4, C5, C6), (C7 & C8), (Columns within 52 feet of P4 Garage)
			Vibratory Sheet Driving	C2, C3, Pedestrian Bridge connecting Station 3 and P4 (C6), (C7), (Columns within 32 feet of P4 Garage)
22	Terminal C Parking Garage	I.	Impact Pile Driving	Pedestrian Bridge connecting Station 3 and Terminal B
			Vibratory Sheet Driving	

Source: Noise and Vibration Technical Report, Paul Carpenter Associates, Inc. (2020)

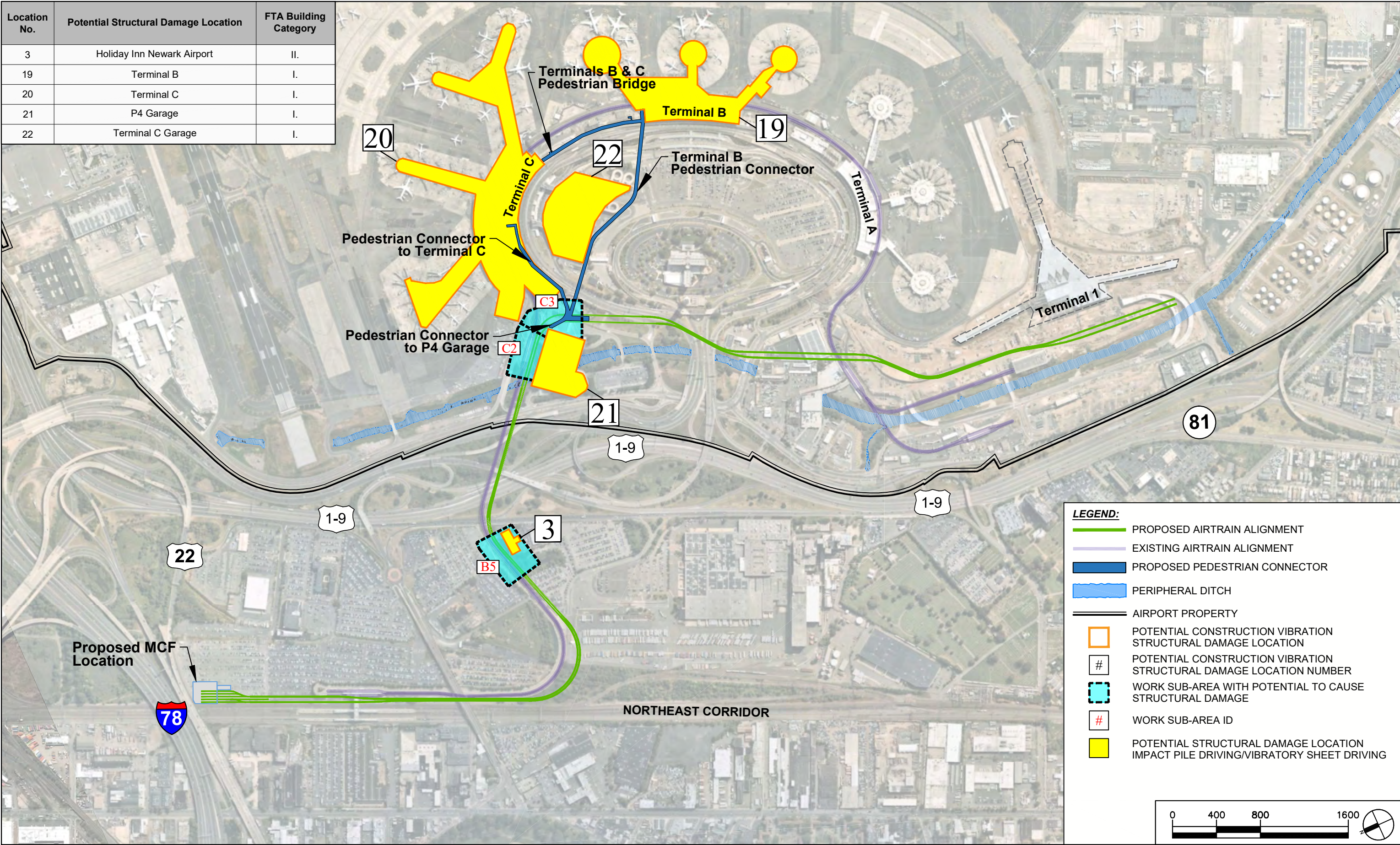
Table G-18 presents vibration-sensitive land use at which FTA recommended vibration annoyance thresholds would potentially be exceeded, the construction activity that would potentially cause the annoyance and associated location of work, as well as the approximate duration of the potential annoyance. **Figure G-9** illustrates potential vibration annoyance locations. Calculation details are provided in **Attachment G-3**.

Table G-18. Construction Vibration FTA General Assessment Results – Potential Annoyance

Receiver Location	Land Use Category	Construction Activity	Nearest Work Area(s)	Duration Of Work (Months)
Holiday Inn Newark Airport	2	Vibratory Sheet Driving	B5, B6 (B30 – B35)	4 months
		Impact Pile Driving	B4 – B7 (B27 – B38)	4 months
		Demolition	Existing Alignment	9 months
Newark Liberty International Airport Marriott	2	Impact Pile Driving	C5, E1 (C17 – C19; E1 – E2)	3 months
The Kintock Group	2	Impact Pile Driving	A4, A5, B1 (A39 – A56; B1 – B12)	5 months
EWR Air Traffic Control Tower	3	Impact Pile Driving	C5, E1, E2 (C18 – C19; E1 – E3)	3 months

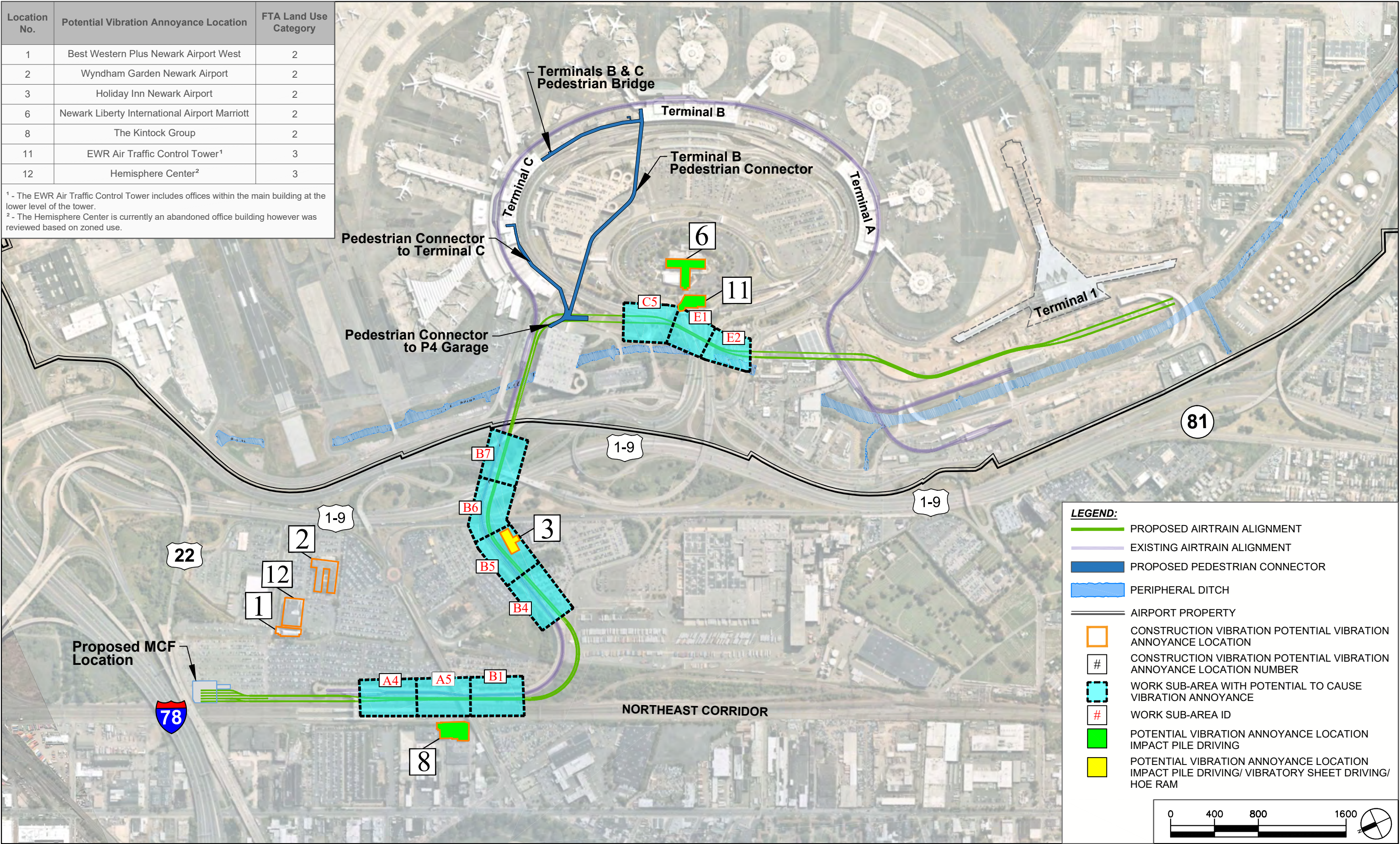
Source: Noise and Vibration Technical Report, Paul Carpenter Associates, Inc. (2020)

Location No.	Potential Structural Damage Location	FTA Building Category
3	Holiday Inn Newark Airport	II.
19	Terminal B	I.
20	Terminal C	I.
21	P4 Garage	I.
22	Terminal C Garage	I.



Location No.	Potential Vibration Annoyance Location	FTA Land Use Category
1	Best Western Plus Newark Airport West	2
2	Wyndham Garden Newark Airport	2
3	Holiday Inn Newark Airport	2
6	Newark Liberty International Airport Marriott	2
8	The Kintock Group	2
11	EWR Air Traffic Control Tower ¹	3
12	Hemisphere Center ²	3

¹ - The EWR Air Traffic Control Tower includes offices within the main building at the lower level of the tower.
² - The Hemisphere Center is currently an abandoned office building however was reviewed based on zoned use.



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MITIGATION MEASURES

OPERATIONAL NOISE AND VIBRATION

No significant operational noise and vibration impacts are anticipated; therefore no noise and vibration mitigation measures are required for the operation of the Proposed Action.

CONSTRUCTION NOISE

Based on the FTA Construction General Noise Assessment performed consistent with FTA guidance, potential construction-related noise impacts have been identified resulting from guideway construction during impact pile driving and vibratory sheet driving activities at the Holiday Inn Newark Airport when occurring in work sub-areas B5 and B6 and at the Newark Liberty International Airport Marriott when these activities occur within sub areas C5 and E1. Based on reasonable assumptions about the types and numbers of construction equipment, as well as the Draft Conceptual Schedule (**Appendix I**), durations of potential noise impacts range from six weeks to three months, as presented in **Table G-14**.

In addition to general environmental measures imposed on contractors, construction work would be planned and executed in a manner to minimize noise impacts to the noise-sensitive land use in close proximity to the Project Area. The following minimization measures to reduce noise during construction are provided in the PANYNJ's Sustainable Infrastructure Guidelines:

- Require all debris conveyors and containers to be lined or covered with sound absorbing materials,
- Require all pneumatic support equipment to have intake and exhaust mufflers recommended by the manufacturer,
- Require all impact devices to be equipped with acoustically attenuating shields or shrouds recommended by the manufacturer,
- Require all internal combustion equipment to have mufflers and shield paneling recommended by the manufacturer,
- Require idling time for both on-road and off-road equipment and vehicles to be limited to three minutes,
- Minimize the use of equipment that generates more than 80 dBA of noise and use such equipment only during daylight hours (i.e., not at night in residential areas),
- Use an approved sound-level meter for self-monitoring and proactively correct conditions where the noise generated by specific pieces of equipment exceeds allowable levels,
- Use noise barriers to contain noise where practicable.

Supplementing the minimization measures in the PANYNJ's Sustainable Infrastructure Guidelines, additional noise minimization measures would be incorporated in documents that will require the contractor to:

- Establish construction noise level limits at noise-sensitive receiver locations. The PANYNJ historically implements more stringent construction-related noise level limits than FTA's guidance for environmental impact assessment. Construction-related noise level limits will be established for those receivers within FTA screening distances as well as beyond, including the Best Western, Wyndham Garden Newark Airport hotel, the Holiday Inn, EWR Air Control Tower (Lower Main Office Building and Elevated Control Tower), the Marriott hotel, and the Kintock Group.

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- Require contractor to develop and implement a Noise Control and Mitigation Plan based on proposed equipment and methods, which will include expected noise levels and noise control measures that will be implemented to meet the project-specific noise level limits established within contract documents,
- Regarding impact pile driving, as part of the Noise Control and Mitigation Plan, the PANYNJ will encourage the use of noise minimization measures such as reducing the impact sound of the ram hitting the pile cap by placing a resilient pad in the anvil chamber and reducing the discharge sound of the hammer's air exhaust by installing a rectangular steel enclosure lined with acoustically absorptive material to provide both sound absorption and a limp mass noise barrier,
- Construct temporary noise barriers using a heavy loaded vinyl material of at least 2 lbs/SF with an STC (Sound Transmission Class) rating of 30 or higher,
- Construct localized three-sided enclosures with roofs (i.e., noise tents) around stationary equipment such as compressors and generators, with the open side facing away from noise sensitive receiver locations,
- Ensure all equipment is well maintained with effective mufflers,
- Require the use of silencers on combustion engines, and
- Provide community relations support to address construction-related noise issues.

Due to the close proximity of proposed foundations to the Holiday Inn, as close as 29 feet from the hotel to the nearest proposed guideway foundation location, coupled with required potential nighttime work near this hotel, reducing noise levels below FTA's recommended impact thresholds would require additional measures beyond typical source and path controls. Specifically, the PANYNJ would require the contractor to provide advanced notice of anticipated pile driving and sheet driving activities and approximate durations, specifically when work is to be performed at piers B31 through B37. To further ensure noise levels are reduced, the PANYNJ would coordinate with hotel operators on measures to reduce noise levels below FTA recommended construction noise impact thresholds by, for example, locating hotel patrons to south facing rooms during such activities, if possible.

CONSTRUCTION VIBRATION

Based on the FTA Construction General Vibration Assessment performed pursuant to FTA's guidance, there is potential for construction-related structural damage at the Holiday Inn, Terminal B, Terminal C, P4 parking garage and Terminal C parking garage during impact pile driving and vibratory sheet driving activities in areas listed in **Table G-17**. It is important to note that potential impact to these structures has been identified during an initial review of construction-related vibration based on conservative assumptions such as soil condition, size of equipment and structure type. Potential vibration-induced annoyance may also occur during construction at the Holiday Inn Newark Airport, Newark Liberty International Airport Marriott, EWR Air Traffic Control Tower, and the Kintock Group during impact pile driving and vibratory sheet driving activities in areas listed in **Table G-18**.

The PANYNJ's Sustainable Infrastructure Guidelines require limiting vibration resulting from construction equipment when work is close to tunnels, utilities, or other sensitive structures by pre-augering the foundation piles and closely monitoring peak particle velocity compliance through seismograph readings. Supplementing the minimization measures in the PANYNJ's Sustainable Infrastructure Guidelines, additional vibration minimization measures would be incorporated in documents that will require the contractor to:

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR) AIRTRAIN REPLACEMENT PROGRAM
NOISE AND VIBRATION TECHNICAL REPORT

- Establish construction vibration structural damage response action and stop-work levels;
- Conduct a pre-construction survey of all buildings adjacent to operations requiring vibratory or impact pile driving equipment, and identify existing cracks and building conditions;
- Require the development and implementation of a Vibration Control and Monitoring Plan, which documents expected vibration levels during driving activities and methods to control vibration;
- Require third-party construction compliance vibration monitoring; and
- Require contractor to be responsible for damage to structures resulting from construction of the project.

ATTACHMENT G-1
Noise Monitoring Study

Equipment Calibration Certificates

Scantek, Inc.

CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1

ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP[®]
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40798

Instrument: Sound Level Meter
Model: NL52
Manufacturer: Rion
Serial number: 01243610
Tested with: Microphone UC-59 s/n 07652
Preamplifier NH25 s/n 43639
Type (class): 1
Customer: Paul Carpenter Associates, Inc.
Tel/Fax: 973-822-8221 x21 / 973-833-9221

Date Calibrated: 5/29/2018 **Cal Due:** 5/29/2019

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: Yes ☒ No**Calibration service:** Basic ☒ Standard**Address:** 7 Columbia Turnpike, Suite 101
Florham Park, NJ 07932**Tested in accordance with the following procedures and standards:**

Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015

SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

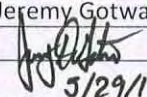
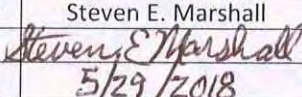
Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
21.4	100.12	55.8

Calibrated by:	Jeremy Gotwalt	Authorized signatory:	Steven E. Marshall
Signature		Signature	
Date	5/29/18	Date	5/29/2018

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.

This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

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Calibration Certificate No.40689

Instrument: Sound Level Meter
Model: NL31
Manufacturer: Rion
Serial number: 00583308
Tested with: Microphone UC53A s/n 317161
Preamplifier NH21 s/n 27538
Type (class): 1
Customer: Paul Carpenter Associates, Inc.
Tel/Fax: 973-822-8221 x21 / 973-833-9221

Date Calibrated: 5/7/2018 **Cal Due:** 5/7/2019
Status:

Received	Sent
X	X

In tolerance:

X	X
---	---

Out of tolerance:

--	--

See comments:
Contains non-accredited tests: Yes ☐ No ☒
Calibration service: Basic ☐ Standard ☒
Address: 7 Columbia Turnpike, Suite 101,
Florham Park, NJ 07932

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
21.9	100.27	45.5

Calibrated by:	Lydon Dawkins	Authorized signatory:	Steven E. Marshall
Signature	<i>Lydon Dawkins</i>	Signature	<i>Steven E. Marshall</i>
Date	5/7/2018	Date	5/8/2018

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CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCCL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)



NVLAP Lab Code: 200625-0

Calibration Certificate No.38950

Instrument: Sound Level Meter
Model: NL52
Manufacturer: Rion
Serial number: 01243608
Tested with: Microphone UC-59 s/n 07650
Preamplifier NH25 s/n 43637
Type (class): 1
Customer: Paul Carpenter Associates, Inc.
Tel/Fax: 973-822-8221 x21 / 973-833-9221

Date Calibrated: 7/10/2017 Cal Due: 7/10/2018

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		
Contains non-accredited tests:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Calibration service:	Basic <input checked="" type="checkbox"/> Standard <input type="checkbox"/>	
Address:	7 Columbia Turnpike, Suite 101, Florham Park, NJ 07932	

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31052	Oct 26, 2016	Scantek, Inc./ NVLAP	Oct 26, 2017
DS-360-SRS	Function Generator	33584	Oct 20, 2015	ACR Env./ A2LA	Oct 20, 2017
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 12, 2016	ACR Env. / A2LA	Oct 12, 2017
HM30-Thommen	Meteo Station	1040170/39633	Nov 1, 2016	ACR Env./ A2LA	Nov 1, 2017
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2016	Scantek, Inc./ NVLAP	Nov 10, 2017

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.0	100.00	53.9

Calibrated by:	Lydon Dawkins	Authorized signatory:	Steven E. Marshall
Signature		Signature	
Date	7/10/2017	Date	7/11/2017

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

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Noise Monitoring Photo Log

**Newark Liberty International Airport (EWR) AirTrain Replacement Program
Noise Monitoring Photo Log**

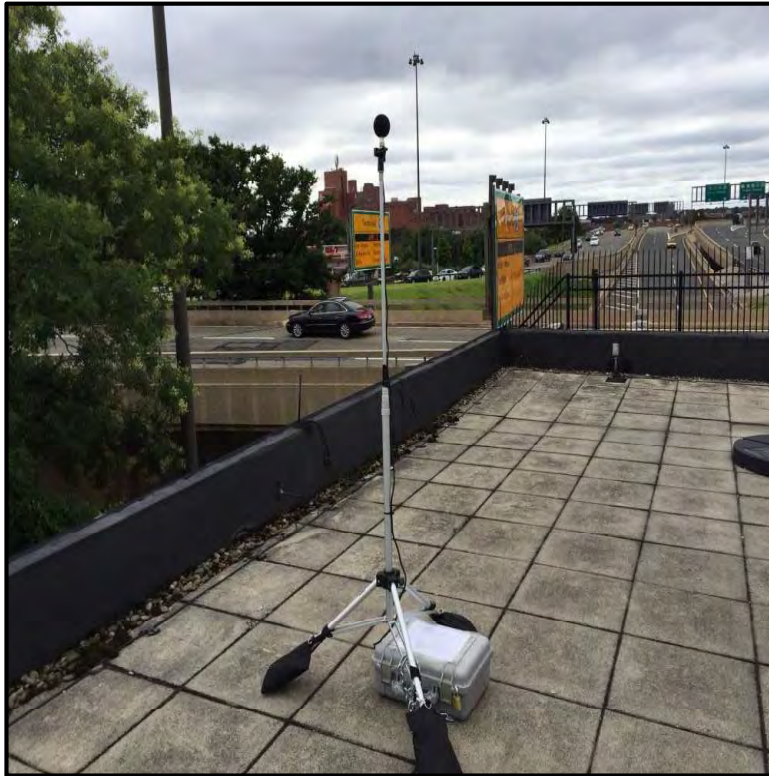


Site #1 – Best Western Plus Newark Airport West



Site #2 – Holiday Inn Newark Airport

Newark Liberty International Airport (EWR) AirTrain Replacement Program
Noise Monitoring Photo Log (Continued)



Site #3 – EWR Air Traffic Control Tower (lower roof)

NOAA Certified Meteorological Data

Newark Liberty International Airport

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-03-11T00:51:00	0	93	6
2019-03-11T01:00:00		93	6
2019-03-11T01:51:00	0	71	17
2019-03-11T02:51:00	0	71	9
2019-03-11T03:51:00	0	71	11
2019-03-11T04:51:00	0	68	11
2019-03-11T05:51:00	0	65	8
2019-03-11T06:51:00	0	62	10
2019-03-11T07:00:00		62	10
2019-03-11T07:51:00	0	63	14
2019-03-11T08:51:00	0	56	16
2019-03-11T09:51:00	0	50	15
2019-03-11T10:51:00	0	41	17
2019-03-11T11:51:00	0	38	18
2019-03-11T12:35:00		37	18
2019-03-11T12:51:00	0	35	17
2019-03-11T13:00:00		35	17
2019-03-11T13:51:00	0	34	21
2019-03-11T14:51:00	0	31	17
2019-03-11T15:51:00	0	29	14
2019-03-11T16:51:00	0	28	15
2019-03-11T17:51:00	0	27	16
2019-03-11T18:51:00	0	27	15
2019-03-11T19:00:00		27	15
2019-03-11T19:51:00	0	35	11
2019-03-11T20:51:00	0	30	11
2019-03-11T21:51:00	0	29	16
2019-03-11T22:35:00		40	15
2019-03-11T22:51:00	0	43	30
2019-03-11T23:51:00	0	46	23
2019-03-11T23:59:00			
2019-03-12T00:51:00	0	43	14
2019-03-12T01:00:00		43	14
2019-03-12T01:51:00	0	44	10
2019-03-12T02:51:00	0	48	10
2019-03-12T03:51:00	0	50	18
2019-03-12T04:51:00	0	48	14
2019-03-12T05:51:00	0	46	11
2019-03-12T06:44:00		46	18
2019-03-12T06:51:00	0	46	17
2019-03-12T07:00:00		46	17
2019-03-12T07:51:00	0	46	17
2019-03-12T08:51:00	0	46	17

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-03-12T09:51:00	0	43	15
2019-03-12T10:51:00	0	39	18
2019-03-12T11:51:00	0	38	21
2019-03-12T12:51:00	0	38	15
2019-03-12T13:00:00		38	15
2019-03-12T13:51:00	0	35	18
2019-03-12T14:51:00	0	34	14
2019-03-12T15:51:00	0	34	18
2019-03-12T16:51:00	0	35	16
2019-03-12T17:51:00	0	35	15
2019-03-12T18:51:00	0	39	14
2019-03-12T19:00:00		39	14
2019-03-12T19:51:00	0	41	10
2019-03-12T20:51:00	0	41	11
2019-03-12T21:51:00	0	44	7
2019-03-12T22:51:00	0	46	7
2019-03-12T23:51:00	0	46	6
2019-03-12T23:59:00			
2019-03-13T00:51:00	0	48	6
2019-03-13T01:00:00		48	6
2019-03-13T01:51:00	0	52	0
2019-03-13T02:51:00	0	56	0
2019-03-13T03:51:00	0	59	7
2019-03-13T04:51:00	0	59	5
2019-03-13T05:51:00	0	59	6
2019-03-13T06:51:00	0	61	5
2019-03-13T07:51:00	0	52	0
2019-03-13T08:51:00	0	44	3
2019-03-13T09:51:00	0	39	3
2019-03-13T10:51:00	0	37	3
2019-03-13T11:51:00	0	39	6
2019-03-13T12:51:00	0	38	9
2019-03-13T13:00:00		38	9
2019-03-13T13:51:00	0	49	13
2019-03-13T14:51:00	0	49	9
2019-03-13T15:51:00	0	58	9
2019-03-13T16:51:00	0	65	8
2019-03-13T17:51:00	0	62	5
2019-03-13T18:51:00	0	60	6
2019-03-13T19:00:00		60	6
2019-03-13T19:51:00	0	60	5
2019-03-13T20:51:00	0	60	5
2019-03-13T21:51:00	0	60	8

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-03-13T22:51:00	0	58	6
2019-03-13T23:51:00	0	49	0
2019-03-13T23:59:00			
2019-03-14T00:51:00	0	49	5
2019-03-14T01:00:00		49	5
2019-03-14T01:51:00	0	49	3
2019-03-14T02:51:00	0	49	0
2019-03-14T03:51:00	0	49	0
2019-03-14T04:51:00	0	49	3
2019-03-14T05:51:00	0	53	3
2019-03-14T06:51:00	0	63	3
2019-03-14T07:00:00		63	3
2019-03-14T07:51:00	0	66	3
2019-03-14T08:51:00	0	56	3
2019-03-14T09:51:00	0	55	8
2019-03-14T10:51:00	0	52	7
2019-03-14T11:51:00	0	54	8
2019-03-14T12:51:00	0	55	9
2019-03-14T13:00:00		55	9
2019-03-14T13:51:00	0	57	8
2019-03-14T14:51:00	0	57	14
2019-03-14T15:51:00	0	61	10
2019-03-14T16:51:00	0	68	3
2019-03-14T17:51:00	0	68	3
2019-03-14T18:51:00	0	71	5
2019-03-14T19:00:00		71	5
2019-03-14T19:51:00	0	71	8
2019-03-14T20:51:00	0	71	7
2019-03-14T21:51:00	0	77	3
2019-03-14T22:51:00	0	77	3
2019-03-14T23:51:00	0	80	3
2019-03-14T23:59:00			
2019-03-15T00:51:00	0	83	5
2019-03-15T01:00:00		83	5
2019-03-15T01:51:00	0	86	0
2019-03-15T02:51:00	0	86	0
2019-03-15T03:51:00	0	86	3
2019-03-15T04:51:00	0	86	3
2019-03-15T05:51:00	0.03	87	7
2019-03-15T06:51:00	T	84	8
2019-03-15T07:00:00		84	8
2019-03-15T07:51:00	0	80	9
2019-03-15T08:51:00	0	73	16

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-03-15T09:51:00	0	65	17
2019-03-15T10:51:00	0	61	22
2019-03-15T11:51:00	0	57	17
2019-03-15T12:51:00	0	55	16
2019-03-15T13:00:00		55	16
2019-03-15T13:51:00	0	52	21
2019-03-15T14:51:00	0	52	15
2019-03-15T15:51:00	0	52	20
2019-03-15T16:51:00	0	56	16
2019-03-15T17:51:00	0	61	16
2019-03-15T18:51:00	0	66	13
2019-03-15T19:00:00		66	13
2019-03-15T19:20:00		68	15
2019-03-15T19:38:00		68	16
2019-03-15T19:42:00		68	13
2019-03-15T19:51:00	0.22	68	28
2019-03-15T20:38:00		93	10
2019-03-15T20:51:00	0.26	93	10
2019-03-15T21:51:00	0.01	90	8
2019-03-15T22:51:00	0	53	21
2019-03-15T23:51:00	0	47	14
2019-03-15T23:59:00			
2019-03-16T00:51:00	0	49	18
2019-03-16T01:51:00	0	47	21
2019-03-16T02:51:00	0	48	16
2019-03-16T03:51:00	0	50	15
2019-03-16T04:51:00	0	54	15
2019-03-16T05:51:00	0	56	13
2019-03-16T06:51:00	0	56	13
2019-03-16T07:00:00		56	13
2019-03-16T07:51:00	0	56	21
2019-03-16T08:51:00	0	46	21
2019-03-16T09:51:00	0	35	25
2019-03-16T10:51:00	0	35	17
2019-03-16T11:51:00	0	37	24
2019-03-16T12:51:00	0	26	24
2019-03-16T13:00:00		26	24
2019-03-16T13:51:00	0	28	16
2019-03-16T14:51:00	0	26	17
2019-03-16T15:51:00	0	25	23
2019-03-16T16:51:00	0	27	21
2019-03-16T17:51:00	0	39	20
2019-03-16T18:51:00	0	40	15

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-03-16T19:00:00		40	15
2019-03-16T19:51:00	0	38	14
2019-03-16T20:51:00	0	36	11
2019-03-16T21:51:00	0	40	11
2019-03-16T22:51:00	0	36	18
2019-03-16T23:51:00	0	28	13
2019-03-16T23:59:00			
2019-03-17T00:51:00	0	31	5
2019-03-17T01:00:00		31	5
2019-03-17T01:51:00	0	35	9
2019-03-17T02:51:00	0	35	5
2019-03-17T03:51:00	0	38	6
2019-03-17T04:51:00	0	40	7
2019-03-17T05:51:00	0	43	8
2019-03-17T06:51:00	0	46	5
2019-03-17T07:00:00		46	5
2019-03-17T07:51:00	0	48	11
2019-03-17T08:51:00	0	46	11
2019-03-17T09:51:00	0	42	13
2019-03-17T10:51:00	0	33	8
2019-03-17T11:51:00	0	29	13
2019-03-17T12:51:00	0	28	9
2019-03-17T13:00:00		28	9
2019-03-17T13:51:00	0	29	6
2019-03-17T14:51:00	0	25	11
2019-03-17T15:51:00	0	23	17
2019-03-17T16:51:00	0	24	14
2019-03-17T17:51:00	0	22	11
2019-03-17T18:51:00	0	28	15
2019-03-17T19:00:00		28	15
2019-03-17T19:51:00	0	30	10
2019-03-17T20:51:00	0	34	15
2019-03-17T21:51:00	0	37	9
2019-03-17T22:51:00	0	42	8
2019-03-17T23:51:00	0	45	6
2019-03-17T23:59:00			
2019-03-18T00:51:00	0	43	5
2019-03-18T01:00:00		43	5
2019-03-18T01:51:00	0	43	0
2019-03-18T02:51:00	0	42	0
2019-03-18T03:51:00	0	49	6
2019-03-18T04:51:00	0	52	6
2019-03-18T05:51:00	0	52	5

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-03-18T06:51:00	0	42	5
2019-03-18T07:00:00		42	5
2019-03-18T07:51:00	0	37	11
2019-03-18T08:51:00	0	36	13
2019-03-18T09:51:00	0	33	8
2019-03-18T10:51:00	0	29	3
2019-03-18T11:51:00	0	28	9
2019-03-18T12:51:00	0	28	3
2019-03-18T13:00:00		28	3
2019-03-18T13:51:00	0	26	13
2019-03-18T14:51:00	0	24	13
2019-03-18T15:51:00	0	26	8
2019-03-18T16:51:00	0	26	8
2019-03-18T17:51:00	0	26	3
2019-03-18T18:51:00	0	27	7
2019-03-18T19:00:00		27	7
2019-03-18T19:51:00	0	28	5
2019-03-18T20:51:00	0	30	3
2019-03-18T21:51:00	0	47	0
2019-03-18T22:51:00	0	60	0
2019-03-18T23:51:00	0	55	3
2019-03-18T23:59:00			
2019-03-29T00:51:00	0	69	7
2019-03-29T01:00:00		69	7
2019-03-29T01:51:00	0	68	6
2019-03-29T02:51:00	0	71	6
2019-03-29T03:51:00	0	69	6
2019-03-29T04:51:00	0	69	7
2019-03-29T05:51:00	0	69	7
2019-03-29T06:51:00	0	64	3
2019-03-29T07:00:00		64	3
2019-03-29T07:51:00	0	64	6
2019-03-29T08:51:00	0	63	5
2019-03-29T09:51:00	0	59	11
2019-03-29T10:51:00	0	57	11
2019-03-29T11:51:00	T	57	11
2019-03-29T12:51:00	T	53	5
2019-03-29T13:00:00		53	5
2019-03-29T13:51:00	T	58	8
2019-03-29T14:51:00	T	69	9
2019-03-29T15:51:00	T	67	6
2019-03-29T16:51:00	0	65	8
2019-03-29T17:51:00	0	65	9

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-03-29T18:51:00	0	64	9
2019-03-29T19:00:00		64	9
2019-03-29T19:51:00	0	64	7
2019-03-29T20:51:00	0	72	6
2019-03-29T21:51:00	0	69	0
2019-03-29T22:51:00	0	72	0
2019-03-29T23:51:00	0	72	0
2019-03-29T23:59:00			
2019-03-30T00:51:00	0	77	0
2019-03-30T01:00:00		77	0
2019-03-30T01:51:00	0	80	5
2019-03-30T02:51:00	0	77	3
2019-03-30T03:51:00	0	77	3
2019-03-30T04:51:00	0	77	6
2019-03-30T05:51:00	0	77	6
2019-03-30T06:51:00	0	80	5
2019-03-30T07:00:00		80	5
2019-03-30T07:51:00	0	72	6
2019-03-30T08:51:00	0	72	8
2019-03-30T09:51:00	0	62	8
2019-03-30T10:51:00	0	60	6
2019-03-30T11:51:00	0	48	8
2019-03-30T12:51:00	0	40	10
2019-03-30T13:00:00		40	10
2019-03-30T13:51:00	0	39	16
2019-03-30T14:51:00	0	40	15
2019-03-30T15:51:00	0	39	14
2019-03-30T16:51:00	0	38	18
2019-03-30T17:51:00	0	42	11
2019-03-30T18:51:00	0	45	10
2019-03-30T19:00:00		45	10
2019-03-30T19:51:00	0	41	15
2019-03-30T20:51:00	0	44	13
2019-03-30T21:51:00	0	47	9
2019-03-30T22:51:00	0	49	8
2019-03-30T23:51:00	0	56	7
2019-03-30T23:59:00			
2019-03-31T00:51:00	0	62	7
2019-03-31T01:00:00		62	7
2019-03-31T01:51:00	0	77	5
2019-03-31T02:51:00	0	67	7
2019-03-31T03:51:00	0	80	6
2019-03-31T04:51:00	0	83	5

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-03-31T05:51:00	0	72	9
2019-03-31T06:51:00	0	69	6
2019-03-31T07:00:00		69	6
2019-03-31T07:51:00	0	65	10
2019-03-31T08:51:00	T	67	13
2019-03-31T09:51:00	T	60	20
2019-03-31T10:51:00	0.02	78	16
2019-03-31T11:51:00	T	81	16
2019-03-31T12:51:00	0.01	80	17
2019-03-31T13:00:00		80	17
2019-03-31T13:51:00	T	77	16
2019-03-31T14:51:00	T	66	17
2019-03-31T15:51:00	T	61	18
2019-03-31T16:51:00	0	50	24
2019-03-31T17:51:00	0	46	22
2019-03-31T18:51:00	0	46	17
2019-03-31T19:00:00		46	17
2019-03-31T19:51:00	0	47	14
2019-03-31T20:51:00	0	47	20
2019-03-31T21:51:00	0	51	17
2019-03-31T22:51:00	0	51	18
2019-03-31T23:51:00	0	46	17
2019-03-31T23:59:00			
2019-03-31T23:59:00			
2019-04-01T00:51:00	0	42	22
2019-04-01T01:00:00		42	22
2019-04-01T01:51:00	0	44	20
2019-04-01T02:51:00	0	46	23
2019-04-01T03:51:00	0	49	15
2019-04-01T04:51:00	0	49	20
2019-04-01T05:51:00	0	54	17
2019-04-01T06:51:00	0	47	22
2019-04-01T07:00:00		47	22
2019-04-01T07:51:00	0	44	21
2019-04-01T08:51:00	0	39	18
2019-04-01T09:51:00	0	38	22
2019-04-01T10:51:00	0	33	24
2019-04-01T11:51:00	0	32	16
2019-04-01T12:51:00	0	27	18
2019-04-01T13:00:00		27	18
2019-04-01T13:51:00	0	25	20
2019-04-01T14:51:00	0	23	17
2019-04-01T15:51:00	0	22	15

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 3/11/19 - 3/18/19; 3/29/19 - 4/2/19 (Site 1)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2019-04-01T16:51:00	0	20	15
2019-04-01T17:51:00	0	22	9
2019-04-01T18:51:00	0	24	11
2019-04-01T19:00:00		24	11
2019-04-01T19:51:00	0	25	7
2019-04-01T20:51:00	0	28	7
2019-04-01T21:51:00	0	33	5
2019-04-01T22:51:00	0	33	3
2019-04-01T23:51:00	0	34	3
2019-04-01T23:59:00			
2019-04-02T00:51:00	0	43	0
2019-04-02T01:00:00		43	0
2019-04-02T01:51:00	0	46	0
2019-04-02T02:51:00	0	41	3
2019-04-02T03:51:00	0	49	0
2019-04-02T04:51:00	0	55	0
2019-04-02T05:51:00	0	64	0
2019-04-02T06:51:00	0	60	6
2019-04-02T07:00:00		60	6
2019-04-02T07:51:00	0	49	8
2019-04-02T08:51:00	0	42	11
2019-04-02T09:51:00	0	41	10
2019-04-02T10:51:00	0	36	13
2019-04-02T11:51:00	0	34	11
2019-04-02T12:51:00	0	37	13
2019-04-02T13:00:00		37	13
2019-04-02T13:51:00	0	46	10
2019-04-02T14:51:00	0	48	11
2019-04-02T15:51:00	0	51	10
2019-04-02T16:51:00	0	56	9
2019-04-02T17:51:00	0	61	11
2019-04-02T18:51:00	0	65	7
2019-04-02T19:00:00		65	7
2019-04-02T19:51:00	0	63	7
2019-04-02T20:51:00	T	68	8
2019-04-02T21:51:00	T	74	8
2019-04-02T22:51:00	0	76	11
2019-04-02T23:51:00	T	79	11
2019-04-02T23:59:00			

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
05/11/2018 00:51	93	5	
05/11/2018 01:00	93	5	
05/11/2018 01:51	87	0	0
05/11/2018 02:51	87	7	0
05/11/2018 03:51	80	8	0
05/11/2018 04:51	75	7	0
05/11/2018 05:51	73	9	0
05/11/2018 06:51	63	13	0
05/11/2018 07:00	63	13	
05/11/2018 07:51	41	14	0
05/11/2018 08:51	34	15	0
05/11/2018 09:51	31	16	0
05/11/2018 10:51	28	9	0
05/11/2018 11:51	25	14	0
05/11/2018 12:51	24	14	0
05/11/2018 13:00	24	14	
05/11/2018 13:51	24	10	0
05/11/2018 14:51	19	14	0
05/11/2018 15:51	19	11	0
05/11/2018 16:51	18	14	0
05/11/2018 17:51	21	10	0
05/11/2018 18:51	23	11	0
05/11/2018 19:00	23	11	
05/11/2018 19:51	25	14	0
05/11/2018 20:51	25	9	0
05/11/2018 21:51	27	11	0
05/11/2018 22:51	32	6	T
05/11/2018 23:51	35	9	0
05/11/2018 23:59			
05/12/2018 00:51	37	10	0
05/12/2018 01:00	37	10	
05/12/2018 01:51	50	6	T
05/12/2018 02:51	58	7	T
05/12/2018 03:51	56	8	T
05/12/2018 04:51	72	5	0.04
05/12/2018 05:51	77	7	T
05/12/2018 06:51	72	6	T
05/12/2018 07:00	72	6	
05/12/2018 07:31	77	8	0.01
05/12/2018 07:51	74	8	0.02
05/12/2018 08:31	80	8	0.01
05/12/2018 08:51	87	7	T
05/12/2018 09:33	83	6	T
05/12/2018 09:45	88	6	0.04

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
05/12/2018 09:51	93	9	0.04
05/12/2018 10:51	84	6	0
05/12/2018 11:51	81	6	0
05/12/2018 12:29	81	6	
05/12/2018 12:51	81	7	0
05/12/2018 13:00	81	7	
05/12/2018 13:51	75	5	0
05/12/2018 14:51	75	5	0
05/12/2018 15:51	75	3	0
05/12/2018 16:51	84	9	0.04
05/12/2018 17:23	90	9	0.02
05/12/2018 17:39	93	8	0.02
05/12/2018 17:51	93	9	0.02
05/12/2018 18:01	93	14	T
05/12/2018 18:51	93	10	0.05
05/12/2018 19:00	93	10	
05/12/2018 19:51	93	11	T
05/12/2018 20:51	93	13	0
05/12/2018 21:51	93	10	0
05/12/2018 22:51	97	10	0
05/12/2018 23:51	93	14	0
05/12/2018 23:59			
05/13/2018 00:51	96	9	0
05/13/2018 01:00	96	9	
05/13/2018 01:51	92	7	0
05/13/2018 02:39	89	8	
05/13/2018 02:51	89	9	T
05/13/2018 03:51	89	10	T
05/13/2018 04:51	89	10	T
05/13/2018 05:51	89	13	0
05/13/2018 06:51	89	11	T
05/13/2018 07:00	89	11	
05/13/2018 07:51	86	9	T
05/13/2018 08:51	83	8	0
05/13/2018 09:51	80	6	0
05/13/2018 10:26	80	8	
05/13/2018 10:51	80	9	0
05/13/2018 11:05	83	8	T
05/13/2018 11:48	94	7	0.05
05/13/2018 11:51	93	7	0.07
05/13/2018 12:51	96	5	0.04
05/13/2018 13:00	96	5	
05/13/2018 13:51	93	7	0.02
05/13/2018 14:25	90	7	T

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
05/13/2018 14:51	90	8	T
05/13/2018 15:51	87	7	0
05/13/2018 16:51	87	5	0
05/13/2018 17:51	87	5	0
05/13/2018 18:51	89	5	0
05/13/2018 19:00	89	5	
05/13/2018 19:51	89	5	0.02
05/13/2018 20:51	97	5	0.09
05/13/2018 21:16	97	5	T
05/13/2018 21:51	97	3	T
05/13/2018 22:51	97	3	T
05/13/2018 23:51	97	5	0.01
05/13/2018 23:59			
05/14/2018 00:51	97	0	0.06
05/14/2018 01:00	97	0	
05/14/2018 01:20	97	0	0.02
05/14/2018 01:51	100	0	0.04
05/14/2018 02:08	100	0	T
05/14/2018 02:51	100	0	0.02
05/14/2018 03:51	100	3	T
05/14/2018 04:14	100	0	T
05/14/2018 04:51	100	3	T
05/14/2018 05:09	100	3	T
05/14/2018 05:51	96	3	0
05/14/2018 06:51	96	0	0
05/14/2018 07:00	96	0	
05/14/2018 07:51	93	0	0
05/14/2018 08:51	90	3	0
05/14/2018 09:39	87	3	
05/14/2018 09:51	87	0	0
05/14/2018 10:51	83	8	0
05/14/2018 11:51	84	6	0
05/14/2018 12:48	73	7	
05/14/2018 12:51	76	6	0
05/14/2018 13:00	76	6	
05/14/2018 13:51	68	6	0
05/14/2018 14:51	70	5	0
05/14/2018 15:51	68	10	0
05/14/2018 16:51	68	9	0
05/14/2018 17:51	73	8	0
05/14/2018 18:51	78	5	0
05/14/2018 19:00	78	5	
05/14/2018 19:51	80	3	0
05/14/2018 20:51	84	0	0

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
05/14/2018 21:51	87	5	0
05/14/2018 22:11	90	5	
05/14/2018 22:51	87	0	0
05/14/2018 23:51	90	3	0
05/14/2018 23:59			
05/30/2018 00:51	79	9	0
05/30/2018 01:00	79	9	
05/30/2018 01:51	84	7	0
05/30/2018 02:42	84	7	
05/30/2018 02:51	87	8	0
05/30/2018 03:15	93	7	
05/30/2018 03:39	93	8	
05/30/2018 03:49	94	5	
05/30/2018 03:51	93	5	0
05/30/2018 04:13	93	6	
05/30/2018 04:51	93	5	0
05/30/2018 05:51	97	5	0
05/30/2018 06:51	97	5	T
05/30/2018 07:00	97	5	
05/30/2018 07:51	96	3	T
05/30/2018 08:08	93	5	T
05/30/2018 08:51	93	6	T
05/30/2018 08:57	93	5	
05/30/2018 09:51	84	3	0
05/30/2018 10:32	84	7	
05/30/2018 10:51	81	9	0
05/30/2018 11:49	78	8	
05/30/2018 11:51	76	8	0
05/30/2018 12:51	76	9	0
05/30/2018 13:00	76	9	
05/30/2018 13:51	73	8	0
05/30/2018 14:48	78	9	
05/30/2018 14:51	78	9	0
05/30/2018 15:48	83	6	
05/30/2018 15:51	78	6	0
05/30/2018 16:51	78	8	0
05/30/2018 17:42	84	9	
05/30/2018 17:51	87	9	0
05/30/2018 18:06	84	8	
05/30/2018 18:11	86	7	
05/30/2018 18:51	90	9	0
05/30/2018 19:00	90	9	
05/30/2018 19:32	93	8	
05/30/2018 19:37	93	7	

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
05/30/2018 19:43	90	9	
05/30/2018 19:51	93	8	0
05/30/2018 20:51	93	0	T
05/30/2018 21:24	90	0	T
05/30/2018 21:51	86	0	T
05/30/2018 22:51	90	5	0
05/30/2018 23:12	90	5	
05/30/2018 23:51	87	5	0
05/30/2018 23:59			
05/31/2018 00:14	87	3	
05/31/2018 00:51	84	5	0
05/31/2018 01:00	84	5	
05/31/2018 01:36	87	5	
05/31/2018 01:51	87	6	0
05/31/2018 02:51	87	6	0
05/31/2018 03:51	84	7	0
05/31/2018 04:51	84	6	T
05/31/2018 05:51	81	7	T
05/31/2018 06:51	81	5	0
05/31/2018 07:00	81	5	
05/31/2018 07:39	81	6	
05/31/2018 07:51	81	6	0
05/31/2018 08:51	84	9	T
05/31/2018 08:57	90	7	T
05/31/2018 09:06	90	7	T
05/31/2018 09:20	93	7	T
05/31/2018 09:51	96	7	0.01
05/31/2018 10:31	93	5	T
05/31/2018 10:51	93	3	T
05/31/2018 11:51	93	6	0
05/31/2018 12:51	90	6	0
05/31/2018 13:00	90	6	
05/31/2018 13:51	90	6	0
05/31/2018 14:51	90	8	T
05/31/2018 15:49	94	7	
05/31/2018 15:51	90	7	0
05/31/2018 16:51	93	6	0
05/31/2018 17:49	94	6	
05/31/2018 17:51	93	6	0
05/31/2018 18:00	93	6	
05/31/2018 18:51	97	5	T
05/31/2018 19:00	97	5	
05/31/2018 19:51	97	5	T
05/31/2018 20:51	100	5	T

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
05/31/2018 21:32	96	7	T
05/31/2018 21:51	100	5	T
05/31/2018 22:51	100	5	T
05/31/2018 23:51	100	6	T
05/31/2018 23:59			
06/01/2018 00:51	100	5	0
06/01/2018 01:00	100	5	
06/01/2018 01:51	100	5	0
06/01/2018 02:51	100	3	0
06/01/2018 03:51	100	3	0.02s
06/01/2018 04:49	100	0	
06/01/2018 04:51	100	0	0.03
06/01/2018 05:36	100	5	T
06/01/2018 05:51	100	3	T
06/01/2018 06:10	100	5	
06/01/2018 06:20	100	6	
06/01/2018 06:43	100	3	0.02
06/01/2018 06:49	100	0	
06/01/2018 06:51	100	5	0.02
06/01/2018 07:00	100	5	
06/01/2018 07:06	100	7	T
06/01/2018 07:49	100	3	
06/01/2018 07:51	100	3	0
06/01/2018 08:51	93	0	0
06/01/2018 08:54	93	0	
06/01/2018 09:51	91	3	0
06/01/2018 10:37	82	3	
06/01/2018 10:49	79	3	
06/01/2018 10:51	76	5	0
06/01/2018 11:23	76	5	
06/01/2018 11:51	74	6	0
06/01/2018 12:51	74	0	0
06/01/2018 13:00	74	0	
06/01/2018 13:51	74	6	0
06/01/2018 14:23	69	7	
06/01/2018 14:51	67	0	0
06/01/2018 15:51	69	7	0
06/01/2018 16:51	74	6	0
06/01/2018 17:51	74	0	0
06/01/2018 18:51	82	5	0
06/01/2018 19:00	82	5	
06/01/2018 19:51	87	3	0
06/01/2018 20:49	88	3	
06/01/2018 20:51	87	5	0

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
06/01/2018 21:51	87	0	0
06/01/2018 22:26	87	3	
06/01/2018 22:51	82	6	0.02
06/01/2018 23:49	94	3	0.13
06/01/2018 23:51	94	3	0.11
06/01/2018 23:59			
06/02/2018 00:51	94	5	T
06/02/2018 01:00	94	5	
06/02/2018 01:51	91	6	0
06/02/2018 02:51	93	0	0
06/02/2018 03:51	93	0	0
06/02/2018 04:51	96	3	0
06/02/2018 05:51	84	7	0
06/02/2018 06:51	77	10	0
06/02/2018 07:00	77	10	
06/02/2018 07:51	74	8	0
06/02/2018 08:51	69	5	0
06/02/2018 09:51	65	6	0
06/02/2018 10:51	59	9	0
06/02/2018 11:51	57	10	0
06/02/2018 12:20	65	26	T
06/02/2018 12:29	72	18	T
06/02/2018 12:38	83	15	0.02
06/02/2018 12:51	*	8	0.03
06/02/2018 12:57	82	7	
06/02/2018 13:00	82	8	
06/02/2018 13:22	74	6	
06/02/2018 13:51	61	11	0
06/02/2018 14:51	53	15	0
06/02/2018 15:51	53	13	0
06/02/2018 16:51	57	14	0
06/02/2018 17:51	58	18	0
06/02/2018 18:51	60	14	0
06/02/2018 19:00	60	14	
06/02/2018 19:51	62	13	0
06/02/2018 20:51	79	7	0.01
06/02/2018 21:14	88	8	0.02
06/02/2018 21:51	87	13	0.01
06/02/2018 22:44	81	14	
06/02/2018 22:51	81	9	0
06/02/2018 23:51	76	15	0
06/02/2018 23:59			
06/03/2018 00:38	84	9	0.01
06/03/2018 00:51	84	9	0.01

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
06/03/2018 01:00	84	9	
06/03/2018 01:51	78	10	0
06/03/2018 02:17	78	14	
06/03/2018 02:51	78	14	T
06/03/2018 03:51	78	10	T
06/03/2018 04:51	73	14	T
06/03/2018 05:51	67	11	0
06/03/2018 06:51	63	9	0
06/03/2018 07:00	63	9	
06/03/2018 07:51	63	13	0
06/03/2018 08:00	63	11	
06/03/2018 08:51	73	10	0
06/03/2018 09:37	75	13	T
06/03/2018 09:51	78	11	T
06/03/2018 10:51	75	9	0.01
06/03/2018 11:51	67	14	0
06/03/2018 12:51	65	17	0
06/03/2018 13:00	65	17	
06/03/2018 13:09	67	14	
06/03/2018 13:51	70	15	0
06/03/2018 14:51	70	13	0
06/03/2018 15:51	72	11	T
06/03/2018 16:51	70	16	0
06/03/2018 17:51	72	14	0
06/03/2018 18:51	72	13	0
06/03/2018 19:00	72	13	
06/03/2018 19:51	78	10	T
06/03/2018 20:51	77	13	T
06/03/2018 21:51	87	9	0.06s
06/03/2018 22:21	90	7	0.01
06/03/2018 22:51	89	10	0.04
06/03/2018 23:51	93	10	0.08
06/03/2018 23:59			
06/04/2018 00:51	89	8	T
06/04/2018 01:00	89	8	
06/04/2018 01:42	97	9	T
06/04/2018 01:51	97	9	T
06/04/2018 02:51	93	11	T
06/04/2018 03:49	94	10	
06/04/2018 03:51	93	11	0.01s
06/04/2018 04:51	100	13	0.03
06/04/2018 05:51	97	11	0.06
06/04/2018 06:19	97	11	T
06/04/2018 06:51	96	14	0.01

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
06/04/2018 07:00	96	14	
06/04/2018 07:51	93	13	0
06/04/2018 08:00	93	14	
06/04/2018 08:51	83	11	0
06/04/2018 09:49	77	7	
06/04/2018 09:51	75	9	0
06/04/2018 10:51	73	10	0
06/04/2018 11:51	68	6	0
06/04/2018 12:51	63	7	0
06/04/2018 13:00	63	7	
06/04/2018 13:35	59	7	
06/04/2018 13:51	59	3	0
06/04/2018 14:51	61	5	0
06/04/2018 15:51	59	6	0
06/04/2018 16:51	61	6	0
06/04/2018 17:51	63	5	0
06/04/2018 18:51	68	5	0
06/04/2018 19:00	68	5	
06/04/2018 19:51	70	6	0
06/04/2018 20:51	78	5	0
06/04/2018 21:51	76	0	0
06/04/2018 22:51	76	3	0
06/04/2018 23:51	75	5	0
06/04/2018 23:59			
06/05/2018 00:51	81	0	0
06/05/2018 01:00	81	0	
06/05/2018 01:51	72	7	0
06/05/2018 02:51	67	5	0
06/05/2018 03:51	69	6	0
06/05/2018 04:51	70	6	0
06/05/2018 05:51	70	7	0
06/05/2018 06:51	60	9	0
06/05/2018 07:00	60	9	
06/05/2018 07:51	51	13	0
06/05/2018 08:51	43	21	0
06/05/2018 09:51	44	16	0
06/05/2018 10:51	44	20	0
06/05/2018 11:51	41	20	0
06/05/2018 12:51	43	20	0
06/05/2018 13:00	43	20	
06/05/2018 13:51	48	11	0
06/05/2018 14:51	48	14	0
06/05/2018 15:51	45	16	0
06/05/2018 16:51	45	13	0

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
06/05/2018 17:34	48	14	
06/05/2018 17:51	48	13	0
06/05/2018 18:51	49	10	0
06/05/2018 19:00	49	10	
06/05/2018 19:51	51	16	0
06/05/2018 20:51	52	14	0
06/05/2018 21:51	52	14	0
06/05/2018 22:51	52	8	0
06/05/2018 23:51	58	9	0
06/05/2018 23:59			
06/06/2018 00:51	62	7	0
06/06/2018 01:00	62	7	
06/06/2018 01:51	70	7	0
06/06/2018 02:51	65	6	0
06/06/2018 03:51	65	6	0
06/06/2018 04:51	69	7	0
06/06/2018 05:51	69	8	0
06/06/2018 06:51	63	6	0
06/06/2018 07:00	63	6	
06/06/2018 07:51	62	7	0
06/06/2018 08:51	60	5	0
06/06/2018 09:51	55	3	0
06/06/2018 10:51	53	0	0
06/06/2018 11:51	51	5	0
06/06/2018 12:51	46	6	0
06/06/2018 13:00	46	6	
06/06/2018 13:51	46	3	0
06/06/2018 14:51	46	5	0
06/06/2018 15:51	51	0	0
06/06/2018 16:51	63	9	0
06/06/2018 17:51	68	8	0
06/06/2018 18:51	73	9	0
06/06/2018 19:00	73	9	
06/06/2018 19:51	75	8	0
06/06/2018 20:51	75	6	0
06/06/2018 21:51	73	6	0
06/06/2018 22:51	72	7	0
06/06/2018 23:51	75	6	0
06/06/2018 23:59			
06/07/2018 00:51	75	5	0
06/07/2018 01:00	75	5	
06/07/2018 01:51	78	5	0
06/07/2018 02:51	78	3	0
06/07/2018 03:51	78	5	0

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
06/07/2018 04:51	78	6	0
06/07/2018 05:51	81	5	0
06/07/2018 06:51	78	5	0
06/07/2018 07:00	78	5	
06/07/2018 07:51	75	6	0
06/07/2018 08:51	70	5	0
06/07/2018 09:51	59	6	0
06/07/2018 10:51	61	8	0
06/07/2018 11:51	63	10	0
06/07/2018 12:51	59	13	0
06/07/2018 13:00	59	13	
06/07/2018 13:51	59	10	0
06/07/2018 14:51	59	11	0
06/07/2018 15:51	61	7	0
06/07/2018 16:51	66	10	0
06/07/2018 17:51	68	9	0
06/07/2018 18:51	73	8	0
06/07/2018 19:00	73	8	
06/07/2018 19:51	78	6	0
06/07/2018 20:51	75	6	0
06/07/2018 21:51	78	6	0
06/07/2018 22:51	78	6	0
06/07/2018 23:51	81	6	0
06/07/2018 23:59			
06/08/2018 00:51	86	3	0
06/08/2018 01:00	86	3	
06/08/2018 01:51	90	7	0
06/08/2018 02:51	90	8	0
06/08/2018 03:51	93	5	0
06/08/2018 04:51	96	6	0
06/08/2018 05:51	87	7	0
06/08/2018 06:51	81	7	0
06/08/2018 07:00	81	7	
06/08/2018 07:51	76	8	0
06/08/2018 08:51	68	3	0
06/08/2018 09:51	56	3	0
06/08/2018 10:51	50	6	0
06/08/2018 11:51	44	11	0
06/08/2018 12:51	41	9	0
06/08/2018 13:00	41	9	
06/08/2018 13:51	38	11	0
06/08/2018 14:51	37	13	0
06/08/2018 15:51	38	8	0
06/08/2018 16:51	38	11	0

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
06/08/2018 17:51	40	15	0
06/08/2018 18:51	44	10	0
06/08/2018 19:00	44	10	
06/08/2018 19:51	49	10	0
06/08/2018 20:51	54	13	0
06/08/2018 21:51	64	13	0
06/08/2018 22:51	71	9	0
06/08/2018 23:51	74	13	0
06/08/2018 23:59			
06/09/2018 00:51	74	8	0
06/09/2018 01:00	74	8	
06/09/2018 01:51	76	5	0
06/09/2018 02:51	71	5	0
06/09/2018 03:51	70	7	0
06/09/2018 04:51	73	9	0
06/09/2018 05:51	68	9	0
06/09/2018 06:51	55	10	0
06/09/2018 07:00	55	10	
06/09/2018 07:51	48	11	0
06/09/2018 08:51	46	10	0
06/09/2018 09:51	43	7	0
06/09/2018 10:51	37	5	0
06/09/2018 11:51	37	8	0
06/09/2018 12:51	38	7	0
06/09/2018 13:00	38	7	
06/09/2018 13:51	35	10	0
06/09/2018 14:51	42	8	0
06/09/2018 15:51	45	11	0
06/09/2018 16:51	50	7	0
06/09/2018 17:51	54	9	0
06/09/2018 18:51	55	3	0
06/09/2018 19:00	55	3	
06/09/2018 19:51	55	0	0
06/09/2018 20:51	50	0	0
06/09/2018 21:51	53	0	0
06/09/2018 22:51	50	0	0
06/09/2018 23:51	51	3	0
06/09/2018 23:59			
06/10/2018 00:51	61	7	0
06/10/2018 01:00	61	7	
06/10/2018 01:51	64	7	0
06/10/2018 02:51	61	8	0
06/10/2018 03:51	57	9	T
06/10/2018 04:51	55	8	T

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
06/10/2018 05:51	57	11	T
06/10/2018 06:51	59	6	T
06/10/2018 07:00	59	6	
06/10/2018 07:51	51	6	T
06/10/2018 08:51	45	7	T
06/10/2018 09:51	44	7	T
06/10/2018 10:51	44	7	T
06/10/2018 11:51	47	6	T
06/10/2018 12:51	51	7	T
06/10/2018 13:00	51	7	
06/10/2018 13:51	54	6	T
06/10/2018 14:51	49	0	T
06/10/2018 15:51	65	5	0.01
06/10/2018 16:51	68	0	0.01
06/10/2018 17:51	54	3	T
06/10/2018 18:51	58	3	T
06/10/2018 19:00	58	3	
06/10/2018 19:51	70	3	T
06/10/2018 20:51	70	3	T
06/10/2018 21:51	75	5	0.01
06/10/2018 22:51	83	3	T
06/10/2018 23:51	90	3	0.03
06/10/2018 23:59			
06/11/2018 00:51	90	5	0.07
06/11/2018 01:00	90	5	
06/11/2018 01:51	93	0	T
06/11/2018 02:51	87	0	T
06/11/2018 03:51	84	0	0
06/11/2018 04:51	84	3	0
06/11/2018 05:51	83	0	0
06/11/2018 06:51	81	3	0
06/11/2018 07:00	81	3	
06/11/2018 07:51	80	6	0
06/11/2018 08:51	52	8	0
06/11/2018 09:51	45	7	0
06/11/2018 10:51	45	6	0
06/11/2018 11:51	47	0	0
06/11/2018 12:51	47	10	0
06/11/2018 13:00	47	10	
06/11/2018 13:51	42	10	0
06/11/2018 14:51	45	9	0
06/11/2018 15:51	44	13	0
06/11/2018 16:51	44	11	0
06/11/2018 17:51	43	10	0

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 5/11/18 - 5/14/18; 5/30/18 - 6/11/18

(Site 2)

DATE	Hourly Relative Humidity	Hourly Wind Speed	Hourly Precipitation
06/11/2018 18:51	50	8	0
06/11/2018 19:00	50	8	
06/11/2018 19:51	58	7	0
06/11/2018 20:51	63	5	0
06/11/2018 21:51	65	5	0
06/11/2018 22:51	70	3	0
06/11/2018 23:51	67	3	0
06/11/2018 23:59			

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 7/24/17 - 7/31/17 (Site 3)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2017-07-24T00:49:00		78	11
2017-07-24T00:51:00	0	76	9
2017-07-24T01:00:00		76	9
2017-07-24T01:51:00	0	76	10
2017-07-24T02:51:00	0	74	14
2017-07-24T03:51:00	0.12s	87	14
2017-07-24T04:26:00	0.14	90	6
2017-07-24T04:49:00	0.23	88	11
2017-07-24T04:51:00	0.19	90	9
2017-07-24T05:10:00	T	90	8
2017-07-24T05:48:00	0.01	94	8
2017-07-24T05:51:00	0.01	93	9
2017-07-24T06:51:00	0	90	9
2017-07-24T07:00:00		90	9
2017-07-24T07:48:00	T	88	7
2017-07-24T07:51:00	T	90	9
2017-07-24T08:51:00	0.11	96	22
2017-07-24T09:08:00	0.27	93	21
2017-07-24T09:48:00	0.51	94	17
2017-07-24T09:51:00	0.47	96	21
2017-07-24T10:49:00		88	18
2017-07-24T10:51:00	T	87	17
2017-07-24T11:25:00	T	84	20
2017-07-24T11:51:00	T	76	20
2017-07-24T12:31:00		79	14
2017-07-24T12:51:00	0	76	15
2017-07-24T13:00:00		76	15
2017-07-24T13:51:00	0	71	14
2017-07-24T14:51:00	0	71	13
2017-07-24T15:51:00	0	68	9
2017-07-24T16:51:00	0	66	8
2017-07-24T17:51:00	0	68	7
2017-07-24T18:51:00	T	73	9
2017-07-24T19:00:00		73	9
2017-07-24T19:13:00	T	73	8
2017-07-24T19:51:00	T	79	8
2017-07-24T20:09:00	T	79	8
2017-07-24T20:51:00	T	79	7
2017-07-24T21:00:00		79	6
2017-07-24T21:51:00	0	78	7
2017-07-24T22:51:00	0	81	7
2017-07-24T23:51:00	0	78	6
2017-07-24T23:59:00			
2017-07-25T00:51:00	0	78	8
2017-07-25T01:00:00		78	8

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 7/24/17 - 7/31/17 (Site 3)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2017-07-25T01:51:00	0	81	11
2017-07-25T02:43:00		87	7
2017-07-25T02:51:00	0	87	8
2017-07-25T03:51:00	0	90	9
2017-07-25T04:51:00	T	93	9
2017-07-25T04:58:00	T	93	7
2017-07-25T05:51:00	T	93	6
2017-07-25T06:51:00	0	87	9
2017-07-25T07:00:00		87	9
2017-07-25T07:05:00		87	10
2017-07-25T07:51:00	0.01	90	8
2017-07-25T08:48:00	T	88	7
2017-07-25T08:51:00	T	84	7
2017-07-25T09:51:00	0	79	8
2017-07-25T10:51:00	0	79	6
2017-07-25T11:51:00	0	76	6
2017-07-25T12:51:00	0	73	3
2017-07-25T13:00:00		73	3
2017-07-25T13:51:00	0	71	3
2017-07-25T14:51:00	0	66	7
2017-07-25T15:49:00		69	8
2017-07-25T15:51:00	0	68	8
2017-07-25T16:51:00	0	66	6
2017-07-25T17:51:00	0	66	7
2017-07-25T17:59:00		66	8
2017-07-25T18:51:00	0	68	7
2017-07-25T19:00:00		68	7
2017-07-25T19:51:00	0	73	8
2017-07-25T20:41:00		76	9
2017-07-25T20:51:00	0	76	9
2017-07-25T21:51:00	0	70	9
2017-07-25T22:51:00	0	68	10
2017-07-25T23:47:00		69	9
2017-07-25T23:51:00	0	70	10
2017-07-25T23:59:00			
2017-07-26T00:51:00	0	71	9
2017-07-26T01:00:00		71	9
2017-07-26T01:51:00	0	71	9
2017-07-26T01:58:00		71	10
2017-07-26T02:51:00	0	71	6
2017-07-26T03:51:00	0	73	5
2017-07-26T04:51:00	0	71	6
2017-07-26T05:51:00	0	73	8
2017-07-26T06:51:00	0	66	10
2017-07-26T07:00:00		66	10

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 7/24/17 - 7/31/17 (Site 3)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2017-07-26T07:51:00	0	61	7
2017-07-26T08:51:00	0	55	5
2017-07-26T09:51:00	0	50	9
2017-07-26T10:51:00	0	52	9
2017-07-26T11:51:00	0	50	10
2017-07-26T12:51:00	0	48	9
2017-07-26T13:00:00		48	9
2017-07-26T13:51:00	0	47	9
2017-07-26T14:51:00	0	46	10
2017-07-26T15:51:00	0	48	8
2017-07-26T16:51:00	0	45	9
2017-07-26T17:51:00	0	50	11
2017-07-26T18:51:00	0	57	7
2017-07-26T19:00:00		57	7
2017-07-26T19:51:00	0	66	7
2017-07-26T20:51:00	0	70	8
2017-07-26T21:51:00	0	76	7
2017-07-26T22:51:00	0	76	7
2017-07-26T23:51:00	0	76	7
2017-07-26T23:59:00			
2017-07-27T00:51:00	0	78	6
2017-07-27T01:00:00		78	6
2017-07-27T01:51:00	0	78	7
2017-07-27T02:51:00	0	81	7
2017-07-27T03:51:00	0	84	6
2017-07-27T04:51:00	0	84	5
2017-07-27T05:51:00	0	81	6
2017-07-27T06:51:00	0	76	8
2017-07-27T07:00:00		76	8
2017-07-27T07:51:00	0	69	9
2017-07-27T08:51:00	0	74	6
2017-07-27T09:03:00		74	9
2017-07-27T09:51:00	0	74	7
2017-07-27T10:51:00	0	69	11
2017-07-27T11:51:00	0	67	8
2017-07-27T12:51:00	0	69	7
2017-07-27T13:00:00		69	7
2017-07-27T13:51:00	T	74	3
2017-07-27T14:51:00	T	74	3
2017-07-27T15:51:00	T	74	6
2017-07-27T16:51:00	0	74	5
2017-07-27T17:51:00	0	74	5
2017-07-27T18:51:00	0	74	3
2017-07-27T19:00:00		74	3
2017-07-27T19:51:00	0	74	0

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 7/24/17 - 7/31/17 (Site 3)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2017-07-27T20:21:00		74	0
2017-07-27T20:51:00	0	74	0
2017-07-27T21:51:00	0	79	9
2017-07-27T22:10:00		82	9
2017-07-27T22:51:00	0	82	6
2017-07-27T23:41:00		82	3
2017-07-27T23:51:00	0	85	0
2017-07-27T23:59:00			
2017-07-28T00:51:00	0	85	3
2017-07-28T01:00:00		85	3
2017-07-28T01:51:00	0	87	0
2017-07-28T02:06:00		87	0
2017-07-28T02:30:00		87	0
2017-07-28T02:51:00	0	87	0
2017-07-28T03:51:00	0	91	0
2017-07-28T04:51:00	0	90	0
2017-07-28T05:51:00	0	90	0
2017-07-28T06:51:00	0	84	6
2017-07-28T07:00:00		84	6
2017-07-28T07:51:00	0	82	7
2017-07-28T08:51:00	0	74	8
2017-07-28T09:51:00	0	67	7
2017-07-28T10:51:00	0	58	6
2017-07-28T11:51:00	0	57	7
2017-07-28T12:51:00	0	51	7
2017-07-28T13:00:00		51	7
2017-07-28T13:51:00	0	57	3
2017-07-28T14:51:00	0	60	8
2017-07-28T15:51:00	0	67	10
2017-07-28T16:51:00	0	67	9
2017-07-28T17:51:00	0	64	6
2017-07-28T18:51:00	0	69	5
2017-07-28T19:00:00		69	5
2017-07-28T19:51:00	0	74	5
2017-07-28T20:51:00	0	82	0
2017-07-28T21:51:00	0	82	5
2017-07-28T22:51:00	0	64	13
2017-07-28T23:51:00	0	60	11
2017-07-28T23:59:00			
2017-07-29T00:51:00	0	62	14
2017-07-29T01:00:00		62	14
2017-07-29T01:51:00	0	64	13
2017-07-29T02:51:00	0	57	13
2017-07-29T03:51:00	T	50	15
2017-07-29T04:51:00	0	49	13

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 7/24/17 - 7/31/17 (Site 3)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2017-07-29T05:51:00	T	51	21
2017-07-29T06:51:00	T	53	18
2017-07-29T07:00:00		53	18
2017-07-29T07:51:00	0	57	21
2017-07-29T08:51:00	0	66	22
2017-07-29T09:51:00	0	61	21
2017-07-29T10:51:00	0	57	25
2017-07-29T11:51:00	0	55	21
2017-07-29T12:51:00	0	53	18
2017-07-29T13:00:00		53	18
2017-07-29T13:51:00	0	55	18
2017-07-29T14:51:00	0	52	16
2017-07-29T15:51:00	0	47	22
2017-07-29T16:51:00	0	48	17
2017-07-29T17:51:00	0	47	20
2017-07-29T18:51:00	0	46	16
2017-07-29T19:00:00		46	16
2017-07-29T19:51:00	0	51	21
2017-07-29T20:51:00	0	51	15
2017-07-29T21:51:00	0	55	11
2017-07-29T22:51:00	0	55	13
2017-07-29T23:51:00	0	57	13
2017-07-29T23:59:00			
2017-07-30T00:51:00	0	56	10
2017-07-30T01:00:00		56	10
2017-07-30T01:51:00	0	63	8
2017-07-30T02:51:00	0	65	9
2017-07-30T03:51:00	0	67	9
2017-07-30T04:51:00	0	72	8
2017-07-30T05:51:00	0	63	9
2017-07-30T06:51:00	0	55	14
2017-07-30T07:00:00		55	14
2017-07-30T07:51:00	0	49	13
2017-07-30T08:51:00	0	46	11
2017-07-30T09:51:00	0	42	10
2017-07-30T10:51:00	0	39	8
2017-07-30T11:51:00	0	35	8
2017-07-30T12:51:00	0	33	9
2017-07-30T13:00:00		33	9
2017-07-30T13:51:00	0	34	9
2017-07-30T14:51:00	0	32	7
2017-07-30T15:51:00	0	33	6
2017-07-30T16:51:00	0	27	10
2017-07-30T17:51:00	0	28	3
2017-07-30T18:51:00	0	42	5

METDATA - NEWARK LIBERTY INTERNATIONAL AIRPORT: 7/24/17 - 7/31/17 (Site 3)

Date/Time	Hourly Precipitation	Hourly Relative Humidity	Hourly Wind Speed
2017-07-30T19:00:00		42	5
2017-07-30T19:51:00	0	47	5
2017-07-30T20:51:00	0	56	7
2017-07-30T21:51:00	0	59	6
2017-07-30T22:51:00	0	61	9
2017-07-30T23:51:00	0	55	9
2017-07-30T23:59:00			
2017-07-31T00:51:00	0	57	8
2017-07-31T01:00:00		57	8
2017-07-31T01:51:00	0	63	7
2017-07-31T02:51:00	0	65	6
2017-07-31T03:51:00	0	66	10
2017-07-31T04:51:00	0	68	3
2017-07-31T05:51:00	0	68	6
2017-07-31T06:51:00	0	64	7
2017-07-31T07:00:00		64	7
2017-07-31T07:51:00	0	52	0
2017-07-31T08:51:00	0	45	0
2017-07-31T09:51:00	0	41	3
2017-07-31T10:51:00	0	39	6
2017-07-31T11:51:00	0	35	6
2017-07-31T12:51:00	0	37	6
2017-07-31T13:00:00		37	6
2017-07-31T13:51:00	0	35	7
2017-07-31T14:51:00	0	34	10
2017-07-31T15:51:00	0	35	0
2017-07-31T16:51:00	0	39	5
2017-07-31T17:51:00	0	46	8
2017-07-31T18:51:00	0	53	8
2017-07-31T19:00:00		53	8
2017-07-31T19:51:00	0	60	5
2017-07-31T20:51:00	0	60	3
2017-07-31T21:51:00	0	64	5
2017-07-31T22:51:00	0	64	3
2017-07-31T23:51:00	0	67	6
2017-07-31T23:59:00			
2017-07-31T23:59:00			

ATTACHMENT G-2
Operational Noise and Vibration Assessment

Noise Calculation Worksheets

Operational Noise Assessment		
Newark Liberty International Airport (EWR) AirTrain Replacement Program		
RECEIVER PARAMETERS		
	<i>Project Alternative:</i>	2031 No Action
	<i>Receiver:</i>	Best Western Plus Newark Airport West - Weekday
	<i>Land Use Category:</i>	2. Residential
	<i>Existing Noise (Measured):</i>	66
NOISE SOURCE PARAMETERS		
Source Information	<i>Source Type:</i>	Highway/Transit
	<i>Specific Source:</i>	DIESEL BUSES
	<i>Reference SEL (SEL_{ref}), dBA:</i>	82
Daytime Hours (7am-10pm)	<i>Average Number of Buses per Hour:</i>	24
	<i>Average Speed (mph):</i>	25
Nighttime Hours (10pm-7am)	<i>Average Number of Buses per Hour:</i>	0
	<i>Average Speed (mph):</i>	25
Distance	<i>Distance from Source to Receiver (feet)</i>	35
	<i>Distance Correction Value, dB:</i>	1.55
PROJECT RESULTS		
	<i>Daytime L_{eq}:</i>	57
	<i>Nighttime L_{eq}:</i>	0
	<i>Future L_{dn}:</i>	55
	<i>Existing L_{dn}:</i>	66
	<i>Project Increase Over Existing:</i>	0
	<i>Noise Impact:</i>	None

Notes:

- 1) Reference SEL noise level for Diesel Buses in Table 4-11 within FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 2) Distance from source to receiver was measured from the closest point on the receiver to the centerline of International Way.
- 3) Distance corrections were calculated using a standard line source propagation equation.
- 4) Degree of impact was determined using Figure 4-3 of the FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 5) Existing noise levels are dominated by the existing transit source, and therefore, per FTA guidance, the cumulative form of the noise impact criteria was utilized to assess impact for this project. The cumulative form of the noise impact criteria is applied when the project involves changes to an existing transit system, as opposed to a new project in an area previously without transit. Such changes might include operations of a new type of vehicle, modifications of track alignments within existing transit corridors, or changes in facilities that dominate existing noise levels.

Operational Noise Assessment		
Newark Liberty International Airport (EWR) AirTrain Replacement Program		
RECEIVER PARAMETERS		
	<i>Project Alternative:</i>	2031 No Action
	<i>Receiver:</i>	Best Western Plus Newark Airport West - Weekend
	<i>Land Use Category:</i>	2. Residential
	<i>Existing Noise (Measured):</i>	65
NOISE SOURCE PARAMETERS		
<i>Source Information</i>	<i>Source Type:</i>	Highway/Transit
	<i>Specific Source:</i>	DIESEL BUSES
	<i>Reference SEL (SEL_{ref}), dBA:</i>	82
<i>Daytime Hours (7am-10pm)</i>	<i>Average Number of Buses per Hour:</i>	24
	<i>Average Speed (mph):</i>	25
<i>Nighttime Hours (10pm-7am)</i>	<i>Average Number of Buses per Hour:</i>	0
	<i>Average Speed (mph):</i>	25
<i>Distance</i>	<i>Distance from Source to Receiver (feet)</i>	35
	<i>Distance Correction Value, dB:</i>	1.55
PROJECT RESULTS		
	<i>Daytime L_{eq}:</i>	57
	<i>Nighttime L_{eq}:</i>	0
	<i>Future L_{dn}:</i>	55
	<i>Existing L_{dn}:</i>	65
	<i>Project Increase Over Existing:</i>	0
	<i>Noise Impact:</i>	None

Notes:

- 1) Reference SEL noise level for Diesel Buses in Table 4-11 within FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 2) Distance from source to receiver was measured from the closest point on the receiver to the centerline of International Way.
- 3) Distance corrections were calculated using a standard line source propagation equation.
- 4) Degree of impact was determined using Figure 4-3 of the FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 5) Existing noise levels are dominated by the existing transit source, and therefore, per FTA guidance, the cumulative form of the noise impact criteria was utilized to assess impact for this project. The cumulative form of the noise impact criteria is applied when the project involves changes to an existing transit system, as opposed to a new project in an area previously without transit. Such changes might include operations of a new type of vehicle, modifications of track alignments within existing transit corridors, or changes in facilities that dominate existing noise levels.

Operational Noise Assessment		
Newark Liberty International Airport (EWR) AirTrain Replacement Program		
RECEIVER PARAMETERS		
	<i>Project Alternative:</i>	Proposed Action - AirTrain System
	<i>Receiver:</i>	Holiday Inn Newark Airport - Weekday
	<i>Land Use Category:</i>	2. Residential
	<i>Existing Noise (Measured):</i>	66
NOISE SOURCE PARAMETERS		
<i>Source Information</i>	<i>Source Type:</i>	Fixed Guideway
	<i>Specific Source:</i>	Automated Guideway Transit-Steel Wheel
	<i>Reference SEL (SEL_{ref}), dBA:</i>	80
<i>Daytime Hours (7am-10pm)</i>	<i>Average Number of Cars per Train:</i>	3
	<i>Average Speed (mph):</i>	32
	<i>Average Hourly Volume (trains per hour):</i>	36
<i>Nighttime Hours (10pm-7am)</i>	<i>Average Number of Cars per Train:</i>	3
	<i>Average Speed (mph):</i>	32
	<i>Average Hourly Volume (trains per hour):</i>	30
<i>Distance</i>	<i>Distance from Source to Receiver (feet)</i>	48
	<i>Distance Correction Value, dB:</i>	-0.18
PROJECT RESULTS		
	<i>Daytime L_{eq}:</i>	61
	<i>Nighttime L_{eq}:</i>	60
	<i>Future L_{dn}:</i>	67
	<i>Existing L_{dn}:</i>	66
	<i>Increase Over Existing:</i>	1
	<i>Noise Impact:</i>	None

Notes:

- 1) Reference SEL noise level for Automated Guideway Transit-Steel Wheel can be found in Table 4-9 within FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 2) The proposed AirTrain system could either have rubber tires or steel wheels. Conservatively, the reference SEL for an Automated Guideway Transit-Steel Wheel system was modeled as a worst-case scenario.
- 3) Distance from source to receiver was measured from the closest point on the receiver to the track centerlines of the replacement AirTrain system.
- 4) Distance corrections were calculated using a standard line source propagation equation.
- 5) Degree of impact was determined using Figure 4-3 of the FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 6) Existing noise levels are dominated by the existing transit source, and therefore, per FTA guidance, the cumulative form of the noise impact criteria was utilized to assess impact for this project. The cumulative form of the noise impact criteria is applied when the project involves changes to an existing transit system, as opposed to a new project in an area previously without transit. Such changes might include operations of a new type of vehicle, modifications of track alignments within existing transit corridors, or changes in facilities that dominate existing noise levels.

Operational General Noise Assessment		
Newark Liberty International Airport (EWR) AirTrain Replacement Program		
RECEIVER PARAMETERS		
	<i>Project Alternative:</i>	Proposed Action - AirTrain System
	<i>Receiver:</i>	Holiday Inn Newark Airport - Weekend
	<i>Land Use Category:</i>	2. Residential
	<i>Existing Noise (Measured):</i>	67
NOISE SOURCE PARAMETERS		
Source Information	<i>Source Type:</i>	Fixed Guideway
	<i>Specific Source:</i>	Automated Guideway Transit-Steel Wheel
	<i>Reference SEL (SEL_{ref}), dBA:</i>	80
Daytime Hours (7am-10pm)	<i>Average Number of Cars per Train:</i>	3
	<i>Average Speed (mph):</i>	32
	<i>Average Hourly Volume (trains per hour):</i>	36
Nighttime Hours (10pm-7am)	<i>Average Number of Cars per Train:</i>	3
	<i>Average Speed (mph):</i>	32
	<i>Average Hourly Volume (trains per hour):</i>	30
Distance	<i>Distance from Source to Receiver (feet)</i>	48
	<i>Distance Correction Value, dB:</i>	-0.18
PROJECT RESULTS		
	<i>Daytime L_{eq}:</i>	61
	<i>Nighttime L_{eq}:</i>	60
	<i>Future L_{dn}:</i>	67
	<i>Existing L_{dn}:</i>	67
	<i>Increase Over Existing:</i>	0
	<i>Noise Impact:</i>	None

Notes:

- 1) Reference SEL noise level for Automated Guideway Transit-Steel Wheel can be found in Table 4-9 within FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 2) The proposed AirTrain system could either have rubber tires or steel wheels. Conservatively, the reference SEL for an Automated Guideway Transit-Steel Wheel system was modeled as a worst-case scenario.
- 3) Distance from source to receiver was measured from the closest point on the receiver to the track centerlines of the replacement AirTrain system.
- 4) Distance corrections were calculated using a standard line source propagation equation.
- 5) Degree of impact was determined using Figure 4-3 of the FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 6) Existing noise levels are dominated by the existing transit source, and therefore, per FTA guidance, the cumulative form of the noise impact criteria was utilized to assess impact for this project. The cumulative form of the noise impact criteria is applied when the project involves changes to an existing transit system, as opposed to a new project in an area previously without transit. Such changes might include operations of a new type of vehicle, modifications of track alignments within existing transit corridors, or changes in facilities that dominate existing noise levels.

Operational General Noise Assessment		
Newark Liberty International Airport (EWR) AirTrain Replacement Program		
RECEIVER PARAMETERS		
	<i>Project Alternative:</i>	Proposed Action - AirTrain System
	<i>Receiver:</i>	Newark Liberty Intl' Airport Marriott-Wkday/Wknd
	<i>Land Use Category:</i>	2. Residential
	<i>Existing Noise (Measured):</i>	72
NOISE SOURCE PARAMETERS		
Source Information	<i>Source Type:</i>	Fixed Guideway
	<i>Specific Source:</i>	Automated Guideway Transit-Steel Wheel
	<i>Reference SEL (SEL_{ref}), dBA:</i>	80
Daytime Hours (7am-10pm)	<i>Average Number of Cars per Train:</i>	3
	<i>Average Speed (mph):</i>	45
	<i>Average Hourly Volume (trains per hour):</i>	36
Nighttime Hours (10pm-7am)	<i>Average Number of Cars per Train:</i>	3
	<i>Average Speed (mph):</i>	45
	<i>Average Hourly Volume (trains per hour):</i>	30
Distance	<i>Distance from Source to Receiver (feet)</i>	348
	<i>Distance Correction Value, dB:</i>	8.4
PROJECT RESULTS		
	<i>Daytime L_{eq}:</i>	55
	<i>Nighttime L_{eq}:</i>	55
	<i>Future L_{dn}:</i>	61
	<i>Existing L_{dn}:</i>	72
	<i>Increase Over Existing:</i>	0
	<i>Noise Impact:</i>	None

Notes:

- 1) Reference SEL noise level for Automated Guideway Transit-Steel Wheel can be found in Table 4-9 within FTA's Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018.
- 2) The proposed AirTrain system could either have rubber tires or steel wheels. Conservatively, the reference SEL for an Automated Guideway Transit-Steel Wheel system was modeled as a worst-case scenario.
- 3) Distance from source to receiver was measured from the closest point on the receiver to the track centerlines of the replacement AirTrain system.
- 4) Distance corrections were calculated using a standard line source propagation equation.
- 5) Degree of impact was determined using Figure 4-3 of the FTA's Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018.
- 6) Existing noise levels are dominated by the existing transit source, and therefore, per FTA guidance, the cumulative form of the noise impact criteria was utilized to assess impact for this project. The cumulative form of the noise impact criteria is applied when the project involves changes to an existing transit system, as opposed to a new project in an area previously without transit. Such changes might include operations of a new type of vehicle, modifications of track alignments within existing transit corridors, or changes in facilities that dominate existing noise levels.
- 7) The Newark Liberty International Airport Marriott falls outside of the applicable screening distance of 100 feet (Category 2), as per FTA guidance. However, a significant shift in the proposed alignment, relative to the existing condition, would occur near this hotel, bringing the AirTrain system approximately 890 feet closer to the hotel.

Operational Noise Assessment		
Newark Liberty International Airport (EWR) AirTrain Replacement Program		
RECEIVER PARAMETERS		
	<i>Project Alternative:</i>	Proposed Action (Busing During Construction/Testing)
	<i>Receiver:</i>	Best Western Plus Newark Airport West - Weekday
	<i>Land Use Category:</i>	2. Residential
	<i>Existing Noise (Measured):</i>	66
NOISE SOURCE PARAMETERS		
<i>Source Information</i>	<i>Source Type:</i>	Highway/Transit
	<i>Specific Source:</i>	DIESEL BUSES
	<i>Reference SEL (SEL_{ref}), dBA:</i>	82
<i>Daytime Hours (7am-10pm)</i>	<i>Average Number of Buses per Hour:</i>	18
	<i>Average Speed (mph):</i>	25
<i>Nighttime Hours (10pm-7am)</i>	<i>Average Number of Buses per Hour:</i>	0
	<i>Average Speed (mph):</i>	25
<i>Distance</i>	<i>Distance from Source to Receiver (feet)</i>	35
	<i>Distance Correction Value, dB:</i>	1.55
PROJECT RESULTS		
	<i>Daytime L_{eq}:</i>	56
	<i>Nighttime L_{eq}:</i>	0
	<i>Future L_{dn}:</i>	54
	<i>Existing L_{dn}:</i>	66
	<i>Project Increase Over Existing:</i>	0
	<i>Noise Impact:</i>	None

Notes:

- 1) Reference SEL noise level for Diesel Buses in Table 4-11 within FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 2) Distance from source to receiver was measured from the closest point on the receiver to the centerline of International Way.
- 3) Distance corrections were calculated using a standard line source propagation equation.
- 4) Degree of impact was determined using Figure 4-3 of the FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 5) Existing noise levels are dominated by the existing transit source, and therefore, per FTA guidance, the cumulative form of the noise impact criteria was utilized to assess impact for this project. The cumulative form of the noise impact criteria is applied when the project involves changes to an existing transit system, as opposed to a new project in an area previously without transit. Such changes might include operations of a new type of vehicle, modifications of track alignments within existing transit corridors, or changes in facilities that dominate existing noise levels.

Operational Noise Assessment		
Newark Liberty International Airport (EWR) AirTrain Replacement Program		
RECEIVER PARAMETERS		
	<i>Project Alternative:</i>	Proposed Action (Busing During Construction/Testing)
	<i>Receiver:</i>	Best Western Plus Newark Airport West - Weekend
	<i>Land Use Category:</i>	2. Residential
	<i>Existing Noise (Measured):</i>	65
NOISE SOURCE PARAMETERS		
Source Information	<i>Source Type:</i>	Highway/Transit
	<i>Specific Source:</i>	DIESEL BUSES
	<i>Reference SEL (SEL_{ref}), dBA:</i>	82
Daytime Hours (7am-10pm)	<i>Average Number of Buses per Hour:</i>	18
	<i>Average Speed (mph):</i>	25
Nighttime Hours (10pm-7am)	<i>Average Number of Buses per Hour:</i>	0
	<i>Average Speed (mph):</i>	25
Distance	<i>Distance from Source to Receiver (feet)</i>	35
	<i>Distance Correction Value, dB:</i>	1.55
PROJECT RESULTS		
	<i>Daytime L_{eq}:</i>	56
	<i>Nighttime L_{eq}:</i>	0
	<i>Future L_{dn}:</i>	54
	<i>Existing L_{dn}:</i>	65
	<i>Project Increase Over Existing:</i>	0
	<i>Noise Impact:</i>	None

Notes:

- 1) Reference SEL noise level for Diesel Buses in Table 4-11 within FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 2) Distance from source to receiver was measured from the closest point on the receiver to the centerline of International Way.
- 3) Distance corrections were calculated using a standard line source propagation equation.
- 4) Degree of impact was determined using Figure 4-3 of the FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.
- 5) Existing noise levels are dominated by the existing transit source, and therefore, per FTA guidance, the cumulative form of the noise impact criteria was utilized to assess impact for this project. The cumulative form of the noise impact criteria is applied when the project involves changes to an existing transit system, as opposed to a new project in an area previously without transit. Such changes might include operations of a new type of vehicle, modifications of track alignments within existing transit corridors, or changes in facilities that dominate existing noise levels.

Vibration Calculation Worksheets

Newark Liberty International Airport (EWR) AirTrain Replacement Program																	
Operational Vibration Assessment																	
Proposed Action - AirTrain System																	
Existing-Rubber Tired Monorail with Average Speed = 27 mph					Path Factors				Receiver Factor	Existing Levels							
Receiver No.	Receiver Location	Distance to Track Centerline (ft)	VdB @ 30 mph Figure 10-1	Speed Adjustment Factor (dB)	Track Configuration (Elevated Structure)	Efficient Propagation in Soil	Coupling Loss Large Masonry on Piles	Amplification Due to Resonances	Ground-Borne Vibration Level (VdB)	Ground-Borne Noise (dBA)							
2	Holiday Inn Newark Airport	89	58	-0.915149811	-10	10	-10	6	53	18							
Proposed-Steel Wheeled AGT with Average Speed = 32 mph																	
					Path Factors				Receiver Factor	Future Levels		Change in Levels from Existing to Future		Criteria		Predicted Impacts	
Receiver No.	Receiver Location	Distance to Track Centerline (ft)	VdB @ 50 mph Figure 10-1	Speed Adjustment Factor (dB)	Track Configuration (Elevated Structure)	Efficient Propagation in Soil	Coupling Loss Large Masonry on Piles	Amplification Due to Resonances	Ground-Borne Vibration Level (VdB)	Ground-Borne Noise Level (dB)	Ground-Borne Vibration (VdB)	Ground-Borne Noise (dBA)	Ground-Borne Vibration Impact Levels (VdB) Category 2	Ground-Borne Noise Impact Levels (dBA) Category 2	Predicted Ground-Borne Vibration Impact?	Predicted Ground-Borne Noise Impact?	
2	Holiday Inn Newark Airport	48	74	-3.87640052	-10	10	-10	6	66	31	13	13	72	35	NO	NO	

1) Source, path, and receiver adjustment factors can be found within Tables 6-11, 6-12, and 6-13 of the FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.

2) Calculation of ground-borne noise adjustment for "Typical Frequency" can be found within Table 6-14 of the FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.

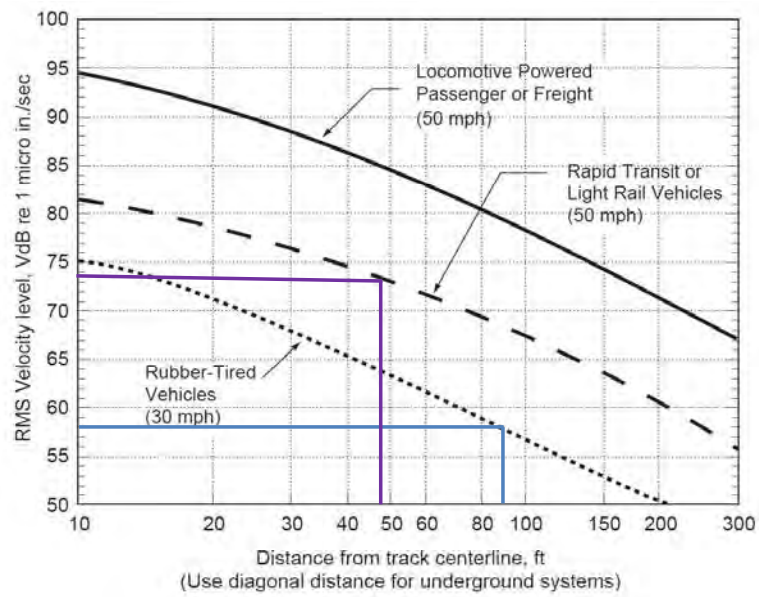
3) The existing AirTrain system is a rubber- tired monorail. Therefore, when determining existing ground surface vibrations using Figure 6-4 within FTA's guidance, the curve representing "Rubber-Tired Vehicles" was used.

4) The replacement AirTrain system vehicle type could either be rubber tire or steel wheel. Conservatively, when determining ground surface vibrations using Figure 6-4 within FTA's guidance, the curve representing "Rapid Transit or Light Rail Vehicles" was used in order to predict a worst case scenario with steel wheels.

5) In accordance with FTA's guidance document, since the proposed ground-borne vibration levels are predicted to be 5 VdB or greater than the existing ground-borne vibration levels, the existing source can be ignored and the standard vibration criteria can be applied. Impact criteria pertaining to ground-borne vibration and ground-borne noise for general assessment can be found in Table 6-3 within FTA's *Transit Noise and Vibration Impact Assessment Manual*, FTA Report No. 0123, September 2018.

6) The replacement AirTrain system was classified under "frequent events" for impact criteria. "Frequent events" is defined as more than 70 vibration events of the same source per day.

7) Peak frequency of ground vibration was assumed "Typical (peak 30 to 60 hz)" and a -35 dB adjustment was utilized in order to determine ground-borne noise levels.



VIBRATION ASSESSMENT		
Proposed Action - AirTrain System		
	Distance (ft)	Assumptions
EXISTING	89	Rubber tired Monorail
PROPOSED	48	Steel wheel AGT

ATTACHMENT G-3
Construction Noise and Vibration Calculation
Worksheets

Construction Noise Analysis

On-Site (Stationary) Sources

Holiday Inn Newark Airport																		
Construction Noise Analysis - Substructure (Foundations)																		
Weekday Daytime Activities																		
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								90.0	83.0								97.6	90.6
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B33	Vibratory Pile Driver	20.00	100.8	173.0			90.0	83.0	B5	B33	Vibratory Pile Driver	20	100.8	72.0		97.6	90.6
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								96.6	89.6								93.8	86.8
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B32	Vibratory Pile Driver	20.00	100.8	81.0			96.6	89.6	B5	B32	Vibratory Pile Driver	20	100.8	112.0		93.8	86.8
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								96.6	90.6								98.1	92.5
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B33	Impact Pile Driver	20.00	101.3	173.0			90.5	83.5	B5	B33	Impact Pile Driver	20	101.3	72.0		98.1	91.1
B5	B32	Vibratory Pile Driver	20.00	100.8	81.0			96.6	89.6	B5	B32	Vibratory Pile Driver	20	100.8	112.0		93.8	86.8
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								90.5	83.5								98.1	91.1
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B33	Impact Pile Driver	20.00	101.3	173.0			90.5	83.5	B5	B33	Impact Pile Driver	20	101.3	72.0		98.1	91.1
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								105.5	98.7								98.1	91.6
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B33	Impact Pile Driver	20.00	101.3	173.0			90.5	83.5	B5	B33	Impact Pile Driver	20	101.3	72.0		98.1	91.1
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								105.5	98.5								98.1	91.1
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B31	Vibratory Pile Driver	20.00	100.8	29.0			105.5	98.5	B5	B31	Vibratory Pile Driver	20	100.8	195.0		89.0	82.0
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								97.1	90.1								94.3	87.3
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B32	Impact Pile Driver	20.00	101.3	81.0			97.1	90.1	B5	B32	Impact Pile Driver	20	101.3	112.0		94.3	87.3
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								97.1	91.0								94.3	87.7
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B32	Impact Pile Driver	20.00	101.3	81.0			97.1	90.1	B5	B32	Impact Pile Driver	20	101.3	112.0		94.3	87.3
B5	B30	Vibratory Pile Driver	20.00	100.8	165.0			90.4	83.4	B5	B30	Vibratory Pile Driver	20	100.8	342.0		84.1	77.1
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								106.0	99.2								89.5	83.6
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B31	Impact Pile Driver	20.00	101.3	29.0			106.0	99.0	B5	B31	Impact Pile Driver	20	101.3	195.0		89.5	82.5
B5	B30	Vibratory Pile Driver	20.00	100.8	165.0			90.4	83.4	B5	B30	Vibratory Pile Driver	20	100.8	342.0		84.1	77.1
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								106.0	99.0								89.5	82.5
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B31	Impact Pile Driver	20.00	101.3	29.0			106.0	99.0	B5	B31	Impact Pile Driver	20	101.3	195.0		89.5	82.5
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								106.0	99.1								89.5	83.2
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B31	Impact Pile Driver	20.00	101.3	29.0			106.0	99.0	B5	B31	Impact Pile Driver	20	101.3	195.0		89.5	82.5
B4	B29	Vibratory Pile Driver	20.00	100.8	265.0			86.3	79.3	B4	B29	Vibratory Pile Driver	20	100.8	442.0		81.9	74.9
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								90.9	85.4								84.6	81.6
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B30	Impact Pile Driver	20.00	101.3	165.0			90.9	83.9	B5	B30	Impact Pile Driver	20	101.3	342.0		84.6	77.6
B4	B29	Vibratory Pile Driver	20.00	100.8	265.0			86.3	79.3	B4	B29	Vibratory Pile Driver	20	100.8	442.0		81.9	74.9
B5	B33	Concrete Pump Truck	20.00	81.4	173.0			70.6	63.6	B5	B33	Concrete Pump Truck	20	81.4	72.0		78.2	71.2
B5	B33	Concrete Mixer Truck	40.00	78.8	173.0			68.0	64.0	B5	B33	Concrete Mixer Truck	40	78.8	72.0		75.6	71.7
B5	B33	Concrete Mixer Truck	40.00	78.8	173.0			68.0	64.0	B5	B33	Concrete Mixer Truck	40	78.8	72.0		75.6	71.7
B5	B33	Concrete Mixer Truck	40.00	78.8	173.0			68.0	64.0	B5	B33	Concrete Mixer Truck	40	78.8	72.0		75.6	71.7
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								90.0	85.9								97.6	90.9
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B4	B29	Impact Pile Driver	20.00	101.3	265.0			86.8	79.8	B4	B29	Impact Pile Driver	20	101.3	442.0		82.4	75.4
B4	B28	Vibratory Pile Driver	20.00	100.8	366.0			83.5	76.5	B4	B28	Vibratory Pile Driver	20	100.8	542.0		80.1	73.1
B5	B33	Vibratory Pile Driver	20.00	100.8	173.0			90.0	83.0	B5	B33	Vibratory Pile Driver	20	100.8	72.0		97.6	90.6
B5	B32	Concrete Pump Truck	20.00	81.4	81.0			77.2	70.2	B5	B32	Concrete Pump Truck	20	81.4	112.0		74.4	67.4
B5	B32	Concrete Mixer Truck	40.00	78.8	81.0			74.6	70.6	B5	B32	Concrete Mixer Truck	40	78.8	112.0		71.8	67.8
B5	B32	Concrete Mixer Truck	40.00	78.8	81.0			74.6	70.6	B5	B32	Concrete Mixer Truck	40	78.8	112.0		71.8	67.8
B5	B32	Concrete Mixer Truck	40.00	78.8	81.0			74.6	70.6	B5	B32	Concrete Mixer Truck	40	78.8	112.0		71.8	67.8
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								96.6	91.2								93.8	87.1
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B4	B28	Impact Pile Driver	20.00	101.3	366.0			84.0	77.0	B4	B28	Impact Pile Driver	20	101.3	542.0		80.6	73.6
B5	B32	Vibratory Pile Driver	20.00	100.8	81.0			96.6	89.6	B5	B32	Vibratory Pile Driver	20	100.8	112.0		93.8	86.8
B5	B31	Concrete Pump Truck	20.00	81.4	29.0			86.1	79.1	B5	B31	Concrete Pump Truck	20	81.4	195.0		69.6	62.6
B5	B31	Concrete Mixer Truck	40.00	78.8	29.0			83.5	79.5	B5	B31	Concrete Mixer Truck	40	78.8	195.0		67.0	63.0
B5	B31	Concrete Mixer Truck	40.00	78.8	29.0			83.5	79.5	B5	B31	Concrete Mixer Truck	40	78.8	195.0		67.0	63.0
B5	B31	Concrete Mixer Truck	40.00	78.8	29.0			83.5	79.5	B5	B31	Concrete Mixer Truck	40	78.8	195.0		67.0	63.0
B5	B31	Concrete Mixer Truck	40.00	78.8	29.0			83.5	79.5	B5	B31	Concrete Mixer Truck	40	78.8	195.0		67.0	63.0
West								East										
							OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
								77.2	86.0								0.0	6.0
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
B5	B31	Concrete Pump Truck	20.00	81.4	29.0			86.1	79.1									
B5	B31	Concrete Mixer Truck	40.00	78.8	29.0			83.5	79.5									
B5	B31	Concrete Mixer Truck	40.00	78.8	29.0			83.5	79.5									
B5	B31	Concrete Mixer Truck	40.00	78.8	29.0			83.5	79.5									
B4	B29	Concrete Pump Truck	20.00	81.4	265.0			66.9	59.9									
B4	B29	Concrete Mixer Truck	40.00	78.8	265.0			64.3	60.3									
B4	B29	Concrete Mixer Truck	40.00	78.8	265.0			64.3	60.3									
B4	B28	Concrete Pump Truck	20.00	81.4	366.0			61.1	57.1									
B4	B28	Concrete Mixer Truck	40.00	78.8	366.0			61.5	57.5									
B4	B28	Concrete Mixer Truck	40.00	78.8	366.0			61.5	57.5									
B5	B30	Concrete Mixer Truck	40.00	78.8	165.0			68.4	64.5									
B5	B30	Concrete Mixer Truck	40.00	78.8	165.0			68.4	64.5									
B5	B30	Concrete Mixer Truck	40.															

Holiday Inn Newark Airport
Construction Noise Analysis - Substructure (Foundations)
Weekday Daytime Activities

B5	B33	Concrete Pump Truck	20.00	81.4	173.0			70.6	63.6	B5	B33	Concrete Pump Truck	20.00	81.4	72.0			78.2	71.2
B5	B33	Concrete Mixer Truck	40.00	78.8	173.0			68.0	64.0	B5	B33	Concrete Mixer Truck	40.00	78.8	72.0			75.6	71.7
B5	B33	Concrete Mixer Truck	40.00	78.8	173.0			68.0	64.0	B5	B33	Concrete Mixer Truck	40.00	78.8	72.0			75.6	71.7
B5	B33	Concrete Mixer Truck	40.00	78.8	173.0			68.0	64.0	B5	B33	Concrete Mixer Truck	40.00	78.8	72.0			75.6	71.7
B4	B29	Concrete Pump Truck	20.00	81.4	265.0			66.9	59.9	B4	B29	Concrete Pump Truck	20.00	81.4	442.0			62.5	55.5
B4	B29	Concrete Mixer Truck	40.00	78.8	265.0			64.3	60.3	B4	B29	Concrete Mixer Truck	40.00	78.8	442.0			59.9	55.9
B4	B29	Concrete Mixer Truck	40.00	78.8	265.0			64.3	60.3	B4	B29	Concrete Mixer Truck	40.00	78.8	442.0			59.9	55.9
B4	B28	Concrete Pump Truck	20.00	81.4	366.0			64.1	57.1	B4	B28	Concrete Pump Truck	20.00	81.4	542.0			60.7	53.7
B4	B28	Concrete Mixer Truck	40.00	78.8	366.0			61.5	57.5	B4	B28	Concrete Mixer Truck	40.00	78.8	542.0			58.1	54.1
B4	B28	Concrete Mixer Truck	40.00	78.8	366.0			61.5	57.5	B4	B28	Concrete Mixer Truck	40.00	78.8	542.0			58.1	54.1
B5	B30	Concrete Pump Truck	20.00	81.4	165.0			71.0	64.0	B5	B30	Concrete Pump Truck	20.00	81.4	342.0			64.7	57.7
B5	B30	Concrete Mixer Truck	40.00	78.8	165.0			68.4	64.5	B5	B30	Concrete Mixer Truck	40.00	78.8	342.0			62.1	58.1
B5	B30	Concrete Mixer Truck	40.00	78.8	165.0			68.4	64.5	B5	B30	Concrete Mixer Truck	40.00	78.8	342.0			62.1	58.1

Holiday Inn Newark Airport
Construction Noise Analysis - Substructure (Foundations)
12-Hour Weekend Activities
(Daytime and Nighttime: 6PM - 6AM)

West												East												
										OVERALL	LMAX	LEQ									OVERALL	LMAX	LEQ	
										75.0	68.0										76.5	69.5		
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B41	Vibratory Pile Driver			20.00	100.8	979.0			75.0	68.0		B7	B41	Vibratory Pile Driver			20	100.8	820.0			76.5	69.5
West												East												
										75.6	68.6											77.6	70.6	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B40	Vibratory Pile Driver			20.00	100.8	909.0			75.6	68.6		B7	B40	Vibratory Pile Driver			20	100.8	726.0			77.6	70.6
West												East												
										75.6	71.6											77.6	73.3	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B41	Impact Pile Driver			20.00	101.3	979.0			75.5	68.5		B7	B41	Impact Pile Driver			20	101.3	820.0			77.0	70.0
B7	B40	Vibratory Pile Driver			20.00	100.8	909.0			75.6	68.6		B7	B40	Vibratory Pile Driver			20	100.8	726.0			77.6	70.6
West												East												
										76.6	72.1											78.7	74.0	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B41	Impact Pile Driver			20.00	101.3	979.0			75.5	68.5		B7	B41	Impact Pile Driver			20.00	101.3	820.0			77.0	70.0
0	B39	Vibratory Pile Driver			20.00	100.8	813.0			76.6	69.6		0	B39	Vibratory Pile Driver			20	100.8	637.0			78.7	71.7
West												East												
										76.6	72.4											78.7	74.4	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B40	Impact Pile Driver			20.00	101.3	909.0			76.1	69.1		B7	B40	Impact Pile Driver			20.00	101.3	726.0			78.1	71.1
B7	B39	Vibratory Pile Driver			20.00	100.8	813.0			76.6	69.6		B7	B39	Vibratory Pile Driver			20	100.8	637.0			78.7	71.7
West												East												
										78.2	73.3											80.9	75.7	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B38	Vibratory Pile Driver			20.00	100.8	678.0			78.2	71.2		B7	B38	Vibratory Pile Driver			20	100.8	497.0			80.9	73.9
0	B40	Impact Pile Driver			20.00	101.3	909.0			76.1	69.1		0	B40	Impact Pile Driver			20	101.3	726.0			78.1	71.1
West												East												
										78.2	73.7											80.9	76.1	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
0	B39	Impact Pile Driver			20.00	101.3	813.0			77.1	70.1		0	B39	Impact Pile Driver			20	101.3	637.0			79.2	72.2
B7	B38	Vibratory Pile Driver			20.00	100.8	678.0			78.2	71.2		B7	B38	Vibratory Pile Driver			20	100.8	497.0			80.9	73.9
West												East												
										79.3	74.4											82.6	77.3	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B39	Impact Pile Driver			20.00	101.3	813.0			77.1	70.1		B7	B39	Impact Pile Driver			20	101.3	637.0			79.2	72.2
B7	B37	Vibratory Pile Driver			20.00	100.8	592.0			79.3	72.3		B7	B37	Vibratory Pile Driver			20	100.8	405.0			82.6	75.6
West												East												
										55.6	75.1											57.1	78.1	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B38	Impact Pile Driver			20.00	101.3	678.0			78.7	71.7		B7	B38	Impact Pile Driver			20.0	101.3	497.0			81.4	74.4
B6	B37	Vibratory Pile Driver			20.00	100.8	592.0			79.3	72.3		B6	B37	Vibratory Pile Driver			20.0	100.8	405.0			82.6	75.6
B7	B41	Concrete Pump Truck			20.00	81.4	979.0			55.6	48.6		B7	B41	Concrete Pump Truck			20.0	81.4	820.0			57.1	50.1
B7	B41	Concrete Mixer Truck			40.00	78.8	979.0			53.0	49.0		B7	B41	Concrete Mixer Truck			40.0	78.8	820.0			54.5	50.5
B7	B41	Concrete Mixer Truck			40.00	78.8	979.0			53.0	49.0		B7	B41	Concrete Mixer Truck			40.0	78.8	820.0			54.5	50.5
B7	B41	Concrete Mixer Truck			40.00	78.8	979.0			53.0	49.0		B7	B41	Concrete Mixer Truck			40.0	78.8	820.0			54.5	50.5
West												East												
										81.3	77.7											85.7	83.4	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B38	Impact Pile Driver			20.00	101.3	678.0			78.7	71.7		B7	B38	Impact Pile Driver			20.0	101.3	497.0			81.4	74.4
B6	B37	Vibratory Pile Driver			20.00	100.8	592.0			79.3	72.3		B6	B37	Vibratory Pile Driver			20.0	100.8	405.0			82.6	75.6
B7	B36	Vibratory Pile Driver			20.00	100.8	472.0			81.3	74.3		B7	B36	Vibratory Pile Driver			20.0	100.8	286.0			85.7	78.7
West												East												
										81.3	76.2											85.7	80.0	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B38	Impact Pile Driver			20.00	101.3	678.0			78.7	71.7		B7	B38	Impact Pile Driver			20.0	101.3	497.0			81.4	74.4
B7	B36	Vibratory Pile Driver			20.00	100.8	472.0			81.3	74.3		B7	B36	Vibratory Pile Driver			20.0	100.8	286.0			85.7	78.7
West												East												
										81.3	76.8											85.7	80.4	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B38	Impact Pile Driver			20.00	101.3	678.0			78.7	71.7		B7	B38	Impact Pile Driver			20.0	101.3	497.0			81.4	74.4
B7	B36	Vibratory Pile Driver			20.00	100.8	472.0			81.3	74.3		B7	B36	Vibratory Pile Driver			20.0	100.8	286.0			85.7	78.7
B8	B41	Vibratory Pile Driver			20.00	100.8	979.0			75.0	68.0		B8	B41	Vibratory Pile Driver			20.0	100.8	820.0			76.5	69.5
West												East												
										81.3	76.7											85.7	80.6	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B37	Impact Pile Driver			20.00	101.3	592.0			79.8	72.8		B7	B37	Impact Pile Driver			20.0	101.3	405.0			83.1	76.1
B7	B36	Vibratory Pile Driver			20.00	100.8	472.0			81.3	74.3		B7	B36	Vibratory Pile Driver			20.0	100.8	286.0			85.7	78.7
B7	B40	Concrete Pump Truck			20.00	81.4	909.0			56.2	49.2		B7	B40	Concrete Pump Truck			20.0	81.4	726.0			58.2	51.2
B7	B40	Concrete Mixer Truck			40.00	78.8	909.0			53.6	49.6		B7	B40	Concrete Mixer Truck			40.0	78.8	726.0			55.6	51.6
B7	B40	Concrete Mixer Truck			40.00	78.8	909.0			53.6	49.6		B7	B40	Concrete Mixer Truck			40.0	78.8	726.0			55.6	51.6
B7	B40	Concrete Mixer Truck			40.00	78.8	909.0			53.6	49.6		B7	B40	Concrete Mixer Truck			40.0	78.8	726.0			55.6	51.6
West												East												
										75.6	73.9											77.6	76.8	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B37	Vibratory Pile Driver			20.00	100.8	592.0			79.3	72.3		B7	B37	Vibratory Pile Driver			20.0	100.8	405.0			82.6	75.6
B7	B40	Vibratory Pile Driver			20.00	100.8	909.0			75.6	68.6		B7	B40	Vibratory Pile Driver			20.0	100.8	726.0			77.6	70.6
West												East												
										83.1	78.6											88.5	83.4	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B36	Impact Pile Driver			20.00	101.3	472.0			81.8	74.8		B7	B36	Impact Pile Driver			20.0	101.3	286.0			85.8	78.8
B7	B35	Vibratory Pile Driver			20.00	100.8	383.0			83.1	76.1		B7	B35	Vibratory Pile Driver			20.0	100.8	207.0			88.5	81.5
B7	B39	Concrete Pump Truck			20.00	81.4	813.0			57.2	50.2		B7	B39	Concrete Pump Truck			20.0	81.4	637.0			59.3	52.3
B7	B39	Concrete Mixer Truck			40.00	78.8	813.0			54.6	50.6		B7	B39	Concrete Mixer Truck			40.0	78.8	637.0			56.7	52.7
B7	B39	Concrete Mixer Truck			40.00	78.8	813.0			54.6	50.6		B7	B39	Concrete Mixer Truck			40.0	78.8	637.0			56.7	52.7
B7	B39	Concrete Mixer Truck			40.00	78.8	813.0			54.6	50.6		B7	B39	Concrete Mixer Truck			40.0	78.8	637.0			56.7	52.7
West												East												
										86.2	78.5											88.5	83.3	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ		AREA	Pier #	EQUIPMENT			U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
B7	B36	Impact Pile Driver			20.00	101.3	472.0			81.8	74.8		B7	B36	Impact Pile Driver			20.0	101.3	286.0			85.8	78.8
B7	B35	Vibratory Pile Driver			20.00	100.8	383.0			83.1	76.1		B7	B35	Vibratory Pile Driver			20.0	100.8	207.0			88.5	81.5
West												East												
										86.2	79.0											88.5	83.6	
AREA	Pier #	EQUIPMENT			U.F.	LEVEL																		

Holiday Inn Newark Airport																			
Construction Noise Analysis - Substructure (Foundations)																			
12-Hour Weekend Activities																			
(Daytime and Nighttime: 6PM - 6AM)																			
B7	B36	Impact Pile Driver	20.00	101.3	475.0			81.7	74.8	B7	B36	Impact Pile Driver	20.0	101.3	298.00			85.8	78.8
B7	B34	Vibratory Pile Driver	20.00	100.8	285.0			85.7	78.7	B7	B34	Vibratory Pile Driver	20.0	100.8	120.00			93.2	86.2
B7	B38	Concrete Pump Truck	20.00	81.4	692.0			58.6	51.6	B7	B38	Concrete Pump Truck	20.0	81.4	528.00			60.9	53.9
B7	B38	Concrete Mixer Truck	40.00	78.8	692.0			56.0	52.0	B7	B38	Concrete Mixer Truck	40.0	78.8	528.00			58.3	54.3
B7	B38	Concrete Mixer Truck	40.00	78.8	692.0			56.0	52.0	B7	B38	Concrete Mixer Truck	40.0	78.8	528.00			58.3	54.3
B7	B38	Concrete Mixer Truck	40.00	78.8	692.0			56.0	52.0	B7	B38	Concrete Mixer Truck	40.0	78.8	528.00			58.3	54.3
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
86.2									86.2									93.2	
LEQ									LEQ									87.6	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B35	Impact Pile Driver	20.00	101.3	383.0			83.6	76.6	B7	B35	Impact Pile Driver	20.0	101.3	207.00			89.0	82.0
B7	B38	Concrete Pump Truck	20.00	100.8	692.0			78.0	71.0	B7	B38	Vibratory Pile Driver	20.0	100.8	528.00			80.3	73.3
B7	B34	Vibratory Pile Driver	20.00	100.8	285.0			85.7	78.7	B7	B34	Vibratory Pile Driver	20.0	100.8	120.00			93.2	86.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
86.2									86.2									93.2	
LEQ									LEQ									87.8	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B35	Impact Pile Driver	20.00	101.3	383.0			83.6	76.6	B7	B35	Impact Pile Driver	20.0	101.3	207.00			89.0	82.0
B7	B37	Concrete Pump Truck	20.00	81.4	601.0			59.8	52.8	B7	B37	Concrete Pump Truck	20.0	81.4	429.00			62.7	55.7
B7	B37	Concrete Mixer Truck	40.00	78.8	601.0			57.2	53.2	B7	B37	Concrete Mixer Truck	40.0	78.8	429.00			60.1	56.1
B7	B37	Concrete Mixer Truck	40.00	78.8	601.0			57.2	53.2	B7	B37	Concrete Mixer Truck	40.0	78.8	429.00			60.1	56.2
B7	B37	Concrete Mixer Truck	40.00	78.8	601.0			57.2	53.2	B7	B37	Concrete Mixer Truck	40.0	78.8	429.00			60.1	56.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
86.2									86.2									93.7	
LEQ									LEQ									86.7	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Impact Pile Driver	20.00	101.3	285.0			86.2	79.2	B7	B34	Impact Pile Driver	20.0	101.3	120.00			93.7	86.7
B7	B40	Concrete Pump Truck	20.00	81.4	601.0			59.8	52.8	B7	B40	Concrete Pump Truck	20.0	81.4	429.00			62.7	55.7
B7	B40	Concrete Mixer Truck	40.00	78.8	601.0			57.2	53.2	B7	B40	Concrete Mixer Truck	40.0	78.8	429.00			60.1	56.2
B7	B40	Concrete Mixer Truck	40.00	78.8	601.0			57.2	53.2	B7	B40	Concrete Mixer Truck	40.0	78.8	429.00			60.1	56.2
B7	B40	Concrete Mixer Truck	40.00	78.8	601.0			57.2	53.2	B7	B40	Concrete Mixer Truck	40.0	78.8	429.00			60.1	56.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
86.2									86.2									93.7	
LEQ									LEQ									87.0	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Impact Pile Driver	20.00	101.3	285.0			86.2	79.2	B7	B34	Impact Pile Driver	20.0	101.3	120.00			93.7	86.7
B7	B37	Vibratory Pile Driver	20.00	100.8	601.0			79.2	72.2	B7	B37	Vibratory Pile Driver	20.0	100.8	429.00			82.1	75.1
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
86.2									86.2									93.7	
LEQ									LEQ									87.1	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Impact Pile Driver	20.00	101.3	285.0			86.2	79.2	B7	B34	Impact Pile Driver	20.0	101.3	120.00			93.7	86.7
B7	B37	Vibratory Pile Driver	20.00	100.8	601.0			79.2	72.2	B7	B37	Vibratory Pile Driver	20.0	100.8	429.00			82.1	75.1
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
86.3									86.3									93.8	
LEQ									LEQ									87.1	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Concrete Pump Truck	20.00	81.4	285.0			66.3	59.3	B7	B34	Concrete Pump Truck	20.0	81.4	120.00			73.8	66.8
B7	B37	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B37	Concrete Mixer Truck	40.0	78.8	120.00			71.2	64.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
66.3									66.3									73.8	
LEQ									LEQ									74.9	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Concrete Pump Truck	20.00	81.4	285.0			66.3	59.3	B7	B34	Concrete Pump Truck	20.0	81.4	120.00			73.8	66.8
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
66.3									66.3									73.8	
LEQ									LEQ									74.9	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Concrete Pump Truck	20.00	81.4	285.0			66.3	59.3	B7	B34	Concrete Pump Truck	20.0	81.4	120.00			73.8	66.8
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
66.3									66.3									73.8	
LEQ									LEQ									74.9	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Concrete Pump Truck	20.00	81.4	285.0			66.3	59.3	B7	B34	Concrete Pump Truck	20.0	81.4	120.00			73.8	66.8
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
66.3									66.3									73.8	
LEQ									LEQ									74.9	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Concrete Pump Truck	20.00	81.4	285.0			66.3	59.3	B7	B34	Concrete Pump Truck	20.0	81.4	120.00			73.8	66.8
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
66.3									66.3									73.8	
LEQ									LEQ									74.9	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Concrete Pump Truck	20.00	81.4	285.0			66.3	59.3	B7	B34	Concrete Pump Truck	20.0	81.4	120.00			73.8	66.8
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
66.3									66.3									73.8	
LEQ									LEQ									74.9	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Concrete Pump Truck	20.00	81.4	285.0			66.3	59.3	B7	B34	Concrete Pump Truck	20.0	81.4	120.00			73.8	66.8
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
West									East										
OVERALL									OVERALL										
LMAX									LMAX									LEQ	
66.3									66.3									73.8	
LEQ									LEQ									74.9	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ	
B7	B34	Concrete Pump Truck	20.00	81.4	285.0			66.3	59.3	B7	B34	Concrete Pump Truck	20.0	81.4	120.00			73.8	66.8
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2
B7	B34	Concrete Mixer Truck	40.00	78.8	285.0			63.7	56.7	B7	B34	Concrete Mixer Truck	40.0	78.8	120.00			71.2	67.2

Holiday Inn Newark Airport
Construction Noise Analysis - Demolition of Existing AirTrain Alignment

							OVERALL	LMAX	LEQ
								86.1	80.1
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Existing AirTrain		Mounted Impact Hammer (hoe ram)	20.00	90.3	81.0			86.1	79.1
		Dump Truck	40.00	76.5	81.0			72.3	68.3
		Dump Truck	40.00	76.5	81.0			72.3	68.3
		Dump Truck	40.00	76.5	81.0			72.3	68.3

Note:

This table illustrates the distance within which demo of existing AirTrain alignment would need to be to exceed FTA nighttime threshold. The closest location where nighttime demo is necessary is greater than 81 feet from the hotel; therefore there would be no demo-related impact to this hotel. Since daytime criterion is 10 dB higher, the distance within which work would need to be, relative to this hotel is much shorter than the closest location of any existing AirTrain demo work.

**Newark Liberty International Airport Marriott
Construction Noise Analysis - Substructure (Foundations)
Weekday Nighttime Activities - Station 3 Piers Only**

North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									77.6	70.6									N/A	N/A
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C14	Vibratory Pile Driver	20.00	100.8	725.0				77.6	70.6	0		Vibratory Pile Driver	20.00	100.8	N/A			N/A	N/A
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									77.1	70.1									N/A	N/A
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C13	Vibratory Pile Driver	20.00	100.8	763.0				77.1	70.1	0		Vibratory Pile Driver	20.00	100.8	0.0			N/A	N/A
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									77.6	73.4									N/A	N/A
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C13	Vibratory Pile Driver	20.00	100.8	763.0				77.1	70.1	0		Vibratory Pile Driver	20.00	100.8	0.0			N/A	N/A
	C14	Vibratory Pile Driver	20.00	100.8	725.0				77.6	70.6	0		Vibratory Pile Driver	20.00	100.8	0.0			N/A	N/A
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									78.1	73.6									N/A	N/A
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C14	Impact Pile Driver	20.00	101.3	725.0				78.1	71.1	0		Impact Pile Driver	20.00	101.3	0.0			N/A	N/A
	C13	Vibratory Pile Driver	20.00	100.8	763.0				77.1	70.1	0		Vibratory Pile Driver	20.00	100.8	0.0			N/A	N/A
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									78.1	75.1									N/A	N/A
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C14	Impact Pile Driver	20.00	101.3	725.0				78.1	71.1	0		Impact Pile Driver	20.00	101.3	0.0			N/A	N/A
	C13	Vibratory Pile Driver	20.00	100.8	763.0				77.1	70.1	0		Vibratory Pile Driver	20.00	100.8	0.0			N/A	N/A
	C12	Vibratory Pile Driver	20.00	100.8	802.0				76.7	69.7	0		Vibratory Pile Driver	20.00	100.8	0.0			N/A	N/A
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									77.2	70.4									0.0	#VALUE!
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C12	Impact Pile Driver	20.00	101.3	802.0				77.2	70.2	0		Impact Pile Driver	20.00	101.3	0.0			N/A	N/A
	C14	Concrete Pump Truck	20.00	81.4	725.0				58.2	51.2	0		Concrete Pump Truck	20.00	81.4	0.0			N/A	N/A
	C14	Concrete Mixer Truck	40.00	78.8	725.0				55.6	51.6	0		Concrete Mixer Truck	40.00	78.8	0.0			N/A	N/A
	C14	Concrete Mixer Truck	40.00	78.8	725.0				55.6	51.6	0		Concrete Mixer Truck	40.00	78.8	0.0			N/A	N/A
	C14	Concrete Mixer Truck	40.00	78.8	725.0				55.6	51.6	0		Concrete Mixer Truck	40.00	78.8	0.0			N/A	N/A

Max Noise Level
70.6
Max Noise Level
70.1
Max Noise Level
73.4
Max Noise Level
73.6
Max Noise Level
75.1
Max Noise Level
70.4

**Newark Liberty International Airport Marriott
Construction Noise Analysis - Substructure (Foundations)
12-Hour Weekend Activities
(Daytime and Nighttime: 6PM - 6AM)**

North										West									
								OVERALL	LMAX	LEQ						OVERALL	LMAX	LEQ	
									78.2	71.2							77.7	70.7	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	C15	Vibratory Pile Driver	20.00	100.8	672.0				78.2	71.2	0	C15	Vibratory Pile Driver	20.00	100.8	715.0		77.7	70.7
North										West									
								OVERALL	LMAX	LEQ						OVERALL	LMAX	LEQ	
									78.9	71.9							78.5	71.5	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	C16	Vibratory Pile Driver	20.00	100.8	622.0				78.9	71.9	0	C16	Vibratory Pile Driver	20.00	100.8	650.0		78.5	71.5
North										West									
								OVERALL	LMAX	LEQ						OVERALL	LMAX	LEQ	
									81.4	76.8							85.0	81.0	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	C19	Impact Pile Driver	20.00	101.3	496.0				81.4	74.4	0	C19	Impact Pile Driver	20.00	101.3	329.0		84.9	77.9
	E1	Vibratory Pile Driver	20.00	100.8	547.0				80.0	73.0	0	E1	Vibratory Pile Driver	20.00	100.8	310.0		85.0	78.0
North										West									
								OVERALL	LMAX	LEQ						OVERALL	LMAX	LEQ	
									81.4	76.8							85.0	80.2	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	C18	Impact Pile Driver	20.00	101.3	493.0				81.4	74.4	0	C18	Impact Pile Driver	20.00	101.3	405.0		83.1	76.1
	E1	Vibratory Pile Driver	20.00	100.8	547.0				80.0	73.0	0	E1	Vibratory Pile Driver	20.00	100.8	310.0		85.0	78.0
North										West									
								OVERALL	LMAX	LEQ						OVERALL	LMAX	LEQ	
									81.4	78.0							85.0	81.4	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	C19	Impact Pile Driver	20.00	101.3	496.0				81.4	74.4	0	C19	Impact Pile Driver	20.00	101.3	329.0		84.9	77.9
	E1	Vibratory Pile Driver	20.00	100.8	547.0				80.0	73.0	0	E1	Vibratory Pile Driver	20.00	100.8	310.0		85.0	78.0
	C16	Vibratory Pile Driver	20.00	100.8	622.0				78.9	71.9	0	C16	Vibratory Pile Driver	20.00	100.8	650.0		78.5	71.5
North										West									
								OVERALL	LMAX	LEQ						OVERALL	LMAX	LEQ	
									81.4	76.9							85.0	80.2	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	C18	Impact Pile Driver	20.00	101.3	493.0				81.4	74.4	0	C18	Impact Pile Driver	20.00	101.3	405.0		83.1	76.1
	E1	Vibratory Pile Driver	20.00	100.8	547.0				80.0	73.0	0	E1	Vibratory Pile Driver	20.00	100.8	310.0		85.0	78.0
	C16	Concrete Pump Truck	20.00	81.4	622.0				59.5	52.5	0	C16	Concrete Pump Truck	20.00	81.4	650.0		59.1	52.1
	C16	Concrete Mixer Truck	40.00	78.8	622.0				56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0		56.5	52.5
	C16	Concrete Mixer Truck	40.00	78.8	622.0				56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0		56.5	52.5
	C16	Concrete Mixer Truck	40.00	78.8	622.0				56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0		56.5	52.5
North										West									
								OVERALL	LMAX	LEQ						OVERALL	LMAX	LEQ	
									81.4	76.0							84.9	79.6	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	C19	Impact Pile Driver	20.00	101.3	496.0				81.4	74.4	0	C19	Impact Pile Driver	20.00	101.3	329.0		84.9	77.9
	E2	Vibratory Pile Driver	20.00	100.8	702.0				77.9	70.9	0	E2	Vibratory Pile Driver	20.00	100.8	449.0		81.7	74.7
North										West									
								OVERALL	LMAX	LEQ						OVERALL	LMAX	LEQ	
									80.5	75.4							85.5	80.0	
AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	E1	Impact Pile Driver	20.00	101.3	547.0				80.5	73.5	0	E1	Impact Pile Driver	20.00	101.3	310.0		85.5	78.5
	E2	Vibratory Pile Driver	20.00	100.8	702.0				77.9	70.9	0	E2	Vibratory Pile Driver	20.00	100.8	449.0		81.7	74.7

Max Noise Level
71.2

Max Noise Level
71.9

Max Noise Level
81.0

Max Noise Level
80.2

Max Noise Level
81.4

Max Noise Level
80.2

Max Noise Level
79.6

Max Noise Level
80.0

**Newark Liberty International Airport Marriott
Construction Noise Analysis - Substructure (Foundations)
12-Hour Weekend Activities
(Daytime and Nighttime: 6PM - 6AM)**

North										West										
								OVERALL	LMAX 80.5	LEQ 74.9								OVERALL	LMAX 85.5	LEQ 79.4
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	E1	Impact Pile Driver	20.00	101.3	547.0				80.5	73.5	0	E1	Impact Pile Driver	20.00	101.3	310.0			85.5	78.5
	E3	Vibratory Pile Driver	20.00	100.8	851.0				76.2	69.2	0	E3	Vibratory Pile Driver	20.00	100.8	584.0			79.5	72.5
North										West										
								OVERALL	LMAX 80.5	LEQ 75.0								OVERALL	LMAX 85.5	LEQ 79.5
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	E1	Impact Pile Driver	20.00	101.3	547.0				80.5	73.5	0	E1	Impact Pile Driver	20.00	101.3	310.0			85.5	78.5
	E3	Vibratory Pile Driver	20.00	100.8	851.0				76.2	69.2	0	E3	Vibratory Pile Driver	20.00	100.8	584.0			79.5	72.5
	C16	Concrete Pump Truck	20.00	81.4	622.0				59.5	52.5	0	C16	Concrete Pump Truck	20.00	81.4	650.0			59.1	52.1
	C16	Concrete Mixer Truck	40.00	78.8	622.0				56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5
	C16	Concrete Mixer Truck	40.00	78.8	622.0				56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5
	C16	Concrete Mixer Truck	40.00	78.8	622.0				56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5
North										West										
								OVERALL	LMAX 80.5	LEQ 75.1								OVERALL	LMAX 85.5	LEQ 79.5
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	E1	Impact Pile Driver	20.00	101.3	547.0				80.5	73.5	0	E1	Impact Pile Driver	20.00	101.3	310.0			85.5	78.5
	E3	Vibratory Pile Driver	20.00	100.8	851.0				76.2	69.2	0	E3	Vibratory Pile Driver	20.00	100.8	584.0			79.5	72.5
	C18	Concrete Pump Truck	20.00	81.4	493.0				61.5	54.5	0	C18	Concrete Pump Truck	20.00	81.4	405.0			63.2	56.2
	C18	Concrete Mixer Truck	40.00	78.8	493.0				58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C18	Concrete Mixer Truck	40.00	78.8	493.0				58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C18	Concrete Mixer Truck	40.00	78.8	493.0				58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
North										West										
								OVERALL	LMAX 79.7	LEQ 76.9								OVERALL	LMAX 79.9	LEQ 76.7
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C15	Impact Pile Driver	20.00	101.3	672.0				78.7	71.7	0	C15	Impact Pile Driver	20.00	101.3	715.0			78.2	71.2
	C16	Vibratory Pile Driver	20.00	100.8	622.0				78.9	71.9	0	C16	Vibratory Pile Driver	20.00	100.8	650.0			78.5	71.5
	C17	Vibratory Pile Driver	20.00	100.8	570.0				79.7	72.7	0	C17	Vibratory Pile Driver	20.00	100.8	552.0			79.9	73.0
North										West										
								OVERALL	LMAX 80.9	LEQ 76.2								OVERALL	LMAX 82.6	LEQ 77.2
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C16	Impact Pile Driver	20.00	101.3	622.0				79.4	72.4	0	C16	Impact Pile Driver	20.00	101.3	650.0			79.0	72.0
	C18	Vibratory Pile Driver	20.00	100.8	493.0				80.9	73.9	0	C18	Vibratory Pile Driver	20.00	100.8	405.0			82.6	75.6
North										West										
								OVERALL	LMAX 80.9	LEQ 76.6								OVERALL	LMAX 82.6	LEQ 77.7
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C17	Impact Pile Driver	20.00	101.3	570.0				80.2	73.2	0	C17	Impact Pile Driver	20.00	101.3	552.0			80.4	73.5
	C18	Vibratory Pile Driver	20.00	100.8	493.0				80.9	73.9	0	C18	Vibratory Pile Driver	20.00	100.8	405.0			82.6	75.6
North										West										
								OVERALL	LMAX 80.9	LEQ 76.6								OVERALL	LMAX 84.4	LEQ 78.9
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C17	Impact Pile Driver	20.00	101.3	570.0				80.2	73.2	0	C17	Impact Pile Driver	20.00	101.3	552.0			80.4	73.5
	C19	Vibratory Pile Driver	20.00	100.8	496.0				80.9	73.9	0	C19	Vibratory Pile Driver	20.00	100.8	329.0			84.4	77.4
	C15	Concrete Pump Truck	20.00	81.4	672.0				58.8	51.8	0	C15	Concrete Pump Truck	20.00	81.4	715.0			58.3	51.3
	C15	Concrete Mixer Truck	40.00	78.8	672.0				56.2	52.3	0	C15	Concrete Mixer Truck	40.00	78.8	715.0			55.7	51.7
	C15	Concrete Mixer Truck	40.00	78.8	672.0				56.2	52.3	0	C15	Concrete Mixer Truck	40.00	78.8	715.0			55.7	51.7
	C15	Concrete Mixer Truck	40.00	78.8	672.0				56.2	52.3	0	C15	Concrete Mixer Truck	40.00	78.8	715.0			55.7	51.7
North										West										
								OVERALL	LMAX 81.4	LEQ 77.2								OVERALL	LMAX 84.4	LEQ 79.9
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C18	Impact Pile Driver	20.00	101.3	493.0				81.4	74.4	0	C18	Impact Pile Driver	20.00	101.3	405.0			83.1	76.1
	C19	Vibratory Pile Driver	20.00	100.8	496.0				80.9	73.9	0	C19	Vibratory Pile Driver	20.00	100.8	329.0			84.4	77.4

Max Noise Level
79.4

Max Noise Level
79.5

Max Noise Level
79.5

Max Noise Level
76.9

Max Noise Level
77.2

Max Noise Level
77.7

Max Noise Level
78.9

Max Noise Level
79.9

**Newark Liberty International Airport Marriott
Construction Noise Analysis - Substructure (Foundations)
12-Hour Weekend Activities
(Daytime and Nighttime: 6PM - 6AM)**

North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									81.4	76.8									85.0	81.0
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C19	Impact Pile Driver	20.00	101.3	496.0				81.4	74.4	0	C19	Impact Pile Driver	20.00	101.3	329.0			84.9	77.9
	E1	Vibratory Pile Driver	20.00	100.8	547.0				80.0	73.0	0	E1	Vibratory Pile Driver	20.00	100.8	310.0			85.0	78.0
	C15	Concrete Pump Truck	20.00	81.4	672.0				58.8	51.8	0	C15	Concrete Pump Truck	20.00	81.4	715.0			58.3	51.3
	C15	Concrete Mixer Truck	40.00	78.8	672.0				56.2	52.3	0	C15	Concrete Mixer Truck	40.00	78.8	715.0			55.7	51.7
	C15	Concrete Mixer Truck	40.00	78.8	672.0				56.2	52.3	0	C15	Concrete Mixer Truck	40.00	78.8	715.0			55.7	51.7
	C15	Concrete Mixer Truck	40.00	78.8	672.0				56.2	52.3	0	C15	Concrete Mixer Truck	40.00	78.8	715.0			55.7	51.7
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									80.5	73.7									85.5	78.5
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	E1	Impact Pile Driver	20.00	101.3	547.0				80.5	73.5	0	E1	Impact Pile Driver	20.00	101.3	310.0			85.5	78.5
	C17	Concrete Pump Truck	20.00	81.4	570.0				60.3	53.3	0	C17	Concrete Pump Truck	20.00	81.4	552.0			60.5	53.6
	C17	Concrete Mixer Truck	40.00	78.8	570.0				57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
	C17	Concrete Mixer Truck	40.00	78.8	570.0				57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
	C17	Concrete Mixer Truck	40.00	78.8	570.0				57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									79.7	76.2									82.2	78.6
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	E2	Impact Pile Driver	20.00	101.3	702.0				78.4	71.4	0	E2	Impact Pile Driver	20.00	101.3	449.0			82.2	75.2
	E3	Vibratory Pile Driver	20.00	100.8	851.0				76.2	69.2	0	E3	Vibratory Pile Driver	20.00	100.8	584.0			79.5	72.5
	C17	Vibratory Pile Driver	20.00	100.8	570.0				79.7	72.7	0	C17	Vibratory Pile Driver	20.00	100.8	552.0			79.9	73.0
	C18	Concrete Pump Truck	20.00	81.4	493.0				61.5	54.5	0	C18	Concrete Pump Truck	20.00	81.4	405.0			63.2	56.2
	C18	Concrete Mixer Truck	40.00	78.8	493.0				58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C18	Concrete Mixer Truck	40.00	78.8	493.0				58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C18	Concrete Mixer Truck	40.00	78.8	493.0				58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									80.9	75.8									82.6	77.5
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	E2	Impact Pile Driver	20.00	101.3	702.0				78.4	71.4	0	E2	Impact Pile Driver	20.00	101.3	584.0			80.0	73.0
	C18	Vibratory Pile Driver	20.00	100.8	493.0				80.9	73.9	0	C18	Vibratory Pile Driver	20.00	100.8	405.0			82.6	75.6
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									78.4	71.7									82.2	75.6
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	E2	Impact Pile Driver	20.00	101.3	702.0				78.4	71.4	0	E2	Impact Pile Driver	20.00	101.3	449.0			82.2	75.2
	C19	Concrete Pump Truck	20.00	81.4	496.0				61.5	54.5	0	C19	Concrete Pump Truck	20.00	81.4	329.0			65.0	58.0
	C19	Concrete Mixer Truck	40.00	78.8	496.0				58.9	54.9	0	C19	Concrete Mixer Truck	40.00	78.8	329.0			62.4	58.5
	C19	Concrete Mixer Truck	40.00	78.8	496.0				58.9	54.9	0	C19	Concrete Mixer Truck	40.00	78.8	329.0			62.4	58.5
	C19	Concrete Mixer Truck	40.00	78.8	496.0				58.9	54.9	0	C19	Concrete Mixer Truck	40.00	78.8	329.0			62.4	58.5
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									60.6	64.5									65.6	68.6
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	C19	Concrete Pump Truck	20.00	81.4	496.0				61.5	54.5	0	C19	Concrete Pump Truck	20.00	81.4	329.0			65.0	58.0
	C19	Concrete Mixer Truck	40.00	78.8	496.0				58.9	54.9	0	C19	Concrete Mixer Truck	40.00	78.8	329.0			62.4	58.5
	C19	Concrete Mixer Truck	40.00	78.8	496.0				58.9	54.9	0	C19	Concrete Mixer Truck	40.00	78.8	329.0			62.4	58.5
	C19	Concrete Mixer Truck	40.00	78.8	496.0				58.9	54.9	0	C19	Concrete Mixer Truck	40.00	78.8	329.0			62.4	58.5
	E2	Concrete Pump Truck	20.00	81.4	702.0				58.5	51.5	0	E2	Concrete Pump Truck	20.00	81.4	449.0			62.3	55.3
	E2	Concrete Mixer Truck	40.00	78.8	702.0				55.9	51.9	0	E2	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
	E2	Concrete Mixer Truck	40.00	78.8	702.0				55.9	51.9	0	E2	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
	E2	Concrete Mixer Truck	40.00	78.8	702.0				55.9	51.9	0	E2	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
	E1	Concrete Pump Truck	20.00	81.4	547.0				60.6	53.6	0	E1	Concrete Pump Truck	20.00	81.4	310.0			65.6	58.6
	E1	Concrete Mixer Truck	40.00	78.8	547.0				58.0	54.0	0	E1	Concrete Mixer Truck	40.00	78.8	310.0			63.0	59.0
	E1	Concrete Mixer Truck	40.00	78.8	547.0				58.0	54.0	0	E1	Concrete Mixer Truck	40.00	78.8	310.0			63.0	59.0
	E1	Concrete Mixer Truck	40.00	78.8	547.0				58.0	54.0	0	E1	Concrete Mixer Truck	40.00	78.8	310.0			63.0	59.0
North										West										
								OVERALL	LMAX	LEQ								OVERALL	LMAX	LEQ
									59.5	73.6									59.1	78.2
AREA		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING			LMAX	LEQ	AREA	Pier #	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	E1	Vibratory Pile Driver	20.00	100.8	547.0				80.0	73.0	0	E1	Vibratory Pile Driver	20.00	100.8	310.0			85.0	78.0
	C18	Concrete Pump Truck	20.00	81.4	493.0				61.5	54.5	0	C18	Concrete Pump Truck	20.00	81.4	405.0			63.2	56.2
	C18	Concrete Mixer Truck	40.00	78.8	493.0				58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7

Max Noise Level
81.0

Max Noise Level
78.5

Max Noise Level
78.6

Max Noise Level
77.5

Max Noise Level
75.6

Max Noise Level
68.6

Max Noise Level
78.2

**Newark Liberty International Airport Marriott
Construction Noise Analysis - Substructure (Foundations)
12-Hour Weekend Activities
(Daytime and Nighttime: 6PM - 6AM)**

	C18	Concrete Mixer Truck	40.00	78.8	493.0			58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C18	Concrete Mixer Truck	40.00	78.8	493.0			58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C17	Concrete Pump Truck	20.00	81.4	570.0			60.3	53.3	0	C17	Concrete Pump Truck	20.00	81.4	552.0			60.5	53.6
	C17	Concrete Mixer Truck	40.00	78.8	570.0			57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
	C17	Concrete Mixer Truck	40.00	78.8	570.0			57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
	C17	Concrete Mixer Truck	40.00	78.8	570.0			57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
	C16	Concrete Pump Truck	20.00	81.4	622.0			59.5	52.5	0	C16	Concrete Pump Truck	20.00	81.4	650.0			59.1	52.1
	C16	Concrete Mixer Truck	40.00	78.8	622.0			56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5
	C16	Concrete Mixer Truck	40.00	78.8	622.0			56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5
	C16	Concrete Mixer Truck	40.00	78.8	622.0			56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5

North										West									
OVERALL										OVERALL									
LMAX										LMAX									
66.8										60.1									
LEQ										LEQ									
66.3										68.7									
AREA	EQUIPMENT		U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	AREA	Pier #	EQUIPMENT		U.F.	LEVEL	DISTANCE	SHIELDING	LMAX	LEQ
	C18	Concrete Pump Truck	20.00	81.4	493.0			61.5	54.5	0	C18	Concrete Pump Truck	20.00	81.4	405.0			63.2	56.2
	C18	Concrete Mixer Truck	40.00	78.8	493.0			58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C18	Concrete Mixer Truck	40.00	78.8	493.0			58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C18	Concrete Mixer Truck	40.00	78.8	493.0			58.9	54.9	0	C18	Concrete Mixer Truck	40.00	78.8	405.0			60.6	56.7
	C17	Concrete Pump Truck	20.00	81.4	570.0			60.3	53.3	0	C17	Concrete Pump Truck	20.00	81.4	552.0			60.5	53.6
	C17	Concrete Mixer Truck	40.00	78.8	570.0			57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
	C17	Concrete Mixer Truck	40.00	78.8	570.0			57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
	C17	Concrete Mixer Truck	40.00	78.8	570.0			57.7	53.7	0	C17	Concrete Mixer Truck	40.00	78.8	552.0			57.9	54.0
	C16	Concrete Pump Truck	20.00	81.4	622.0			59.5	52.5	0	C16	Concrete Pump Truck	20.00	81.4	650.0			59.1	52.1
	C16	Concrete Mixer Truck	40.00	78.8	622.0			56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5
	C16	Concrete Mixer Truck	40.00	78.8	622.0			56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5
	C16	Concrete Mixer Truck	40.00	78.8	622.0			56.9	52.9	0	C16	Concrete Mixer Truck	40.00	78.8	650.0			56.5	52.5
	E1	Concrete Pump Truck	20.00	81.4	547.0			60.6	53.6	0	E1	Concrete Pump Truck	20.00	81.4	310.0			65.6	58.6
	E1	Concrete Mixer Truck	40.00	78.8	547.0			58.0	54.0	0	E1	Concrete Mixer Truck	40.00	78.8	310.0			63.0	59.0
	E1	Concrete Mixer Truck	40.00	78.8	547.0			58.0	54.0	0	E1	Concrete Mixer Truck	40.00	78.8	310.0			63.0	59.0
	E1	Concrete Mixer Truck	40.00	78.8	547.0			58.0	54.0	0	E1	Concrete Mixer Truck	40.00	78.8	310.0			63.0	59.0
	E3	Concrete Pump Truck	20.00	81.4	851.0			56.8	49.8	0	E3	Concrete Pump Truck	20.00	81.4	584.0			60.1	53.1
	E3	Concrete Mixer Truck	40.00	78.8	851.0			54.2	50.2	0	E3	Concrete Mixer Truck	40.00	78.8	584.0			57.5	53.5
	E3	Concrete Mixer Truck	40.00	78.8	851.0			54.2	50.2	0	E3	Concrete Mixer Truck	40.00	78.8	584.0			57.5	53.5
	E3	Concrete Mixer Truck	40.00	78.8	851.0			54.2	50.2	0	E3	Concrete Mixer Truck	40.00	78.8	584.0			57.5	53.5

Max Noise Level
68.7

**Newark Liberty International Airport Marriott
Construction Noise Analysis - Pedestrian Bridges
Weekday Daytime Activities**

North									
							OVERALL	LMAX	LEQ
								78.8	71.9
		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B Br (Heading 1 and 2)		Vibratory Pile Driver	20.00	100.8	626.0			78.8	71.9
North									
							OVERALL	LMAX	LEQ
								79.3	72.4
		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B Br (Heading 1 and 2)		Impact Pile Driver	20.00	101.3	626.0			79.3	72.4
North									
							OVERALL	LMAX	LEQ
								79.3	72.5
Terminal B Br (Heading 1 and 2)									
		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
		Impact Pile Driver	20.00	101.3	626.0			79.3	72.4
		Concrete Pump Truck	20.00	81.4	646.0			59.2	52.2
		Concrete Mixer Truck	40.00	78.8	646.0			56.6	52.6
		Concrete Mixer Truck	40.00	78.8	646.0			56.6	52.6
		Concrete Mixer Truck	40.00	78.8	646.0			56.6	52.6
North									
							OVERALL	LMAX	LEQ
								79.3	72.7
Terminal B Br (Heading 1 and 2)									
		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
		Impact Pile Driver	20.00	101.3	626.0			79.3	72.4
		Concrete Pump Truck	20.00	81.4	646.0			59.2	52.2
		Concrete Mixer Truck	40.00	78.8	646.0			56.6	52.6
		Concrete Mixer Truck	40.00	78.8	646.0			56.6	52.6
		Concrete Mixer Truck	40.00	78.8	646.0			56.6	52.6
		Concrete Pump Truck	20.00	81.4	684.0			58.7	51.7
		Concrete Mixer Truck	40.00	78.8	684.0			56.1	52.1
		Concrete Mixer Truck	40.00	78.8	684.0			56.1	52.1
		Concrete Mixer Truck	40.00	78.8	684.0			56.1	52.1
North									
							OVERALL	LMAX	LEQ
								59.5	61.4
Terminal B Br (Heading 1 and 2)									
		EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
		Concrete Pump Truck	20.00	81.4	625.0			59.5	52.5
		Concrete Mixer Truck	40.00	78.8	625.0			56.9	52.9
		Concrete Mixer Truck	40.00	78.8	625.0			56.9	52.9
		Concrete Mixer Truck	40.00	78.8	625.0			56.9	52.9
		Concrete Pump Truck	20.00	81.4	683.0			58.7	51.7
		Concrete Mixer Truck	40.00	78.8	683.0			56.1	52.1
		Concrete Mixer Truck	40.00	78.8	683.0			56.1	52.1
		Concrete Mixer Truck	40.00	78.8	683.0			56.1	52.1

Terminal C Skycap Construction Noise Analysis - AirTrain Guideway and Stations																	
North									East								
						OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
							77.7	70.7								77.7	70.7
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
C9	Impact Pile Driver	20.00	101.3	760.0			77.7	70.7	C9	Impact Pile Driver	20.00	101.3	760.0			77.7	70.7
North									East								
						OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
							75.1	72.1								75.1	72.1
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
C15	Impact Pile Driver	20.00	101.3	1017.0			75.1	68.1	C15	Impact Pile Driver	20.00	101.3	1017.0			75.1	68.1
C16	Vibratory Pile Driver	20.00	100.8	1069.0			74.2	67.2	C16	Vibratory Pile Driver	20.00	100.8	1069.0			74.2	67.2
C17	Vibratory Pile Driver	20.00	100.8	1189.0			73.3	66.3	C17	Vibratory Pile Driver	20.00	100.8	1189.0			73.3	66.3
North									East								
						OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
							57.3	59.9								57.3	59.9
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
C9	Concrete Pump Truck	20.00	81.4	760.0			57.8	50.8	C9	Concrete Pump Truck	20.00	81.4	760.0			57.8	50.8
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
C10	Concrete Pump Truck	20.00	81.4	800.0			57.3	50.3	C10	Concrete Pump Truck	20.00	81.4	800.0			57.3	50.3
C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7	C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7
C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7	C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7
C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7	C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7
North									East								
						OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
							75.1	70.7								75.1	68.1
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
C15	Impact Pile Driver	20.00	101.3	1017.0			75.1	68.1	C15	Impact Pile Driver	20.00	101.3	1017.0			75.1	68.1
C16	Vibratory Pile Driver	20.00	100.8	1069.0			74.2	67.2		Vibratory Pile Driver	20.00	100.8	1069.0				
North									East								
						OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
							75.1	70.9								75.1	70.9
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
C15	Impact Pile Driver	20.00	101.3	1017.0			75.1	68.1	C15	Impact Pile Driver	20.00	101.3	1017.0			75.1	68.1
C16	Vibratory Pile Driver	20.00	100.8	1069.0			74.2	67.2	C16	Vibratory Pile Driver	20.00	100.8	1069.0			74.2	67.2
C9	Concrete Pump Truck	20.00	81.4	760.0			57.8	50.8	C9	Concrete Pump Truck	20.00	81.4	760.0			57.8	50.8
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
North									East								
						OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
							77.2	72.1								77.2	72.1
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
C15	Vibratory Pile Driver	20.00	100.8	1017.0			74.6	67.6	C15	Vibratory Pile Driver	20.00	100.8	1017.0			74.6	67.6
C9	Vibratory Pile Driver	20.00	100.8	760.0			77.2	70.2		Vibratory Pile Driver	20.00	100.8	760.0			77.2	70.2
North									East								
						OVERALL	LMAX	LEQ							OVERALL	LMAX	LEQ
							74.6	70.3								74.6	70.3
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
C18	Impact Pile Driver	20.00	101.3	1327.0			72.8	65.8	C18	Impact Pile Driver	20.00	101.3	1327.0			72.8	65.8
C15	Vibratory Pile Driver	20.00	100.8	1017.0			74.6	67.6	C15	Vibratory Pile Driver	20.00	100.8	1017.0			74.6	67.6
C9	Concrete Pump Truck	20.00	81.4	760.0			57.8	50.8	C9	Concrete Pump Truck	20.00	81.4	760.0			57.8	50.8
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2	C9	Concrete Mixer Truck	40.00	78.8	760.0			55.2	51.2
C10	Concrete Pump Truck	20.00	81.4	800.0			57.3	50.3	C10	Concrete Pump Truck	20.00	81.4	800.0			57.3	50.3
C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7	C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7
C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7	C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7
C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7	C10	Concrete Mixer Truck	40.00	78.8	800.0			54.7	50.7

Max Noise Level
70.7

Max Noise Level
72.1

Max Noise Level
59.9

Max Noise Level
70.7

Max Noise Level
70.9

Max Noise Level
72.1

Max Noise Level
70.3

**Terminal C Skycap
Construction Noise Analysis - Pedestrian Bridges**

						OVERALL	LMAX	LEQ
							79.3	72.3
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Term B Bridge	Impact Pile Driver	20.00	101.3	633.0			79.3	72.3
						OVERALL	LMAX	LEQ
							78.8	71.8
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Term B Bridge	Vibratory Pile Driver	20.00	100.8	633.0			78.8	71.8
						OVERALL	LMAX	LEQ
							59.4	58.7
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Concrete Pump Truck	20.00	81.4	633.0			59.4	52.4
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
						OVERALL	LMAX	LEQ
							59.4	61.5
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Concrete Pump Truck	20.00	81.4	633.0			59.4	52.4
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
	Concrete Pump Truck	20.00	81.4	662.0			59.0	52.0
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
						OVERALL	LMAX	LEQ
							59.4	63.2
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Concrete Pump Truck	20.00	81.4	633.0			59.4	52.4
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
	Concrete Pump Truck	20.00	81.4	662.0			59.0	52.0
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Pump Truck	20.00	81.4	663.0			58.9	52.0
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
North								
						OVERALL	LMAX	LEQ
							79.3	72.6
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Impact Pile Driver	20.00	101.3	633.0			79.3	72.3

Terminal C Skycap
Construction Noise Analysis - Pedestrian Bridges

	Concrete Pump Truck	20.00	81.4	662.0			59.0	52.0
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Pump Truck	20.00	81.4	663.0			58.9	52.0
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
North								
						OVERALL	LMAX	LEQ
							79.3	72.4
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Impact Pile Driver	20.00	101.3	633.0			79.3	72.3
	Concrete Pump Truck	20.00	81.4	662.0			59.0	52.0
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
North								
						OVERALL	LMAX	LEQ
							78.8	72.1
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Vibratory Pile Driver	20.00	100.8	633.0			78.8	71.8
	Concrete Pump Truck	20.00	81.4	662.0			59.0	52.0
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Mixer Truck	40.00	78.8	662.0			56.4	52.4
	Concrete Pump Truck	20.00	81.4	663.0			58.9	52.0
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
	Concrete Mixer Truck	40.00	78.8	663.0			56.3	52.4
North								
						OVERALL	LMAX	LEQ
							83.4	76.5
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal C Br	Vibratory Pile Driver	20.00	100.8	372.0			83.4	76.4
Terminal B Br	Concrete Pump Truck	20.00	81.4	633.0			59.4	52.4
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
North								
						OVERALL	LMAX	LEQ
							83.9	76.9
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal C Br	Impact Pile Driver	20.00	101.3	372.0			83.9	76.9
North								
						OVERALL	LMAX	LEQ
							83.9	76.9
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal C Br	Impact Pile Driver	20.00	101.3	372.0			83.9	76.9
Terminal B Br	Concrete Pump Truck	20.00	81.4	633.0			59.4	52.4
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
North								
						OVERALL	LMAX	LEQ

Terminal C Skycap
Construction Noise Analysis - Pedestrian Bridges

							83.9	77.0
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal C Br	Impact Pile Driver	20.00	101.3	372.0			83.9	76.9
Terminal C Br	Concrete Pump Truck	20.00	81.4	572.0			60.2	53.2
Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7
Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7
Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7
Terminal B Br	Concrete Pump Truck	20.00	81.4	633.0			59.4	52.4
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
North								
						OVERALL	LMAX	LEQ
							103.7	96.7
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Vibratory Pile Driver	20.00	100.8	36.0			103.7	96.7
Terminal C Br	Concrete Pump Truck	20.00	81.4	1005.0			55.3	48.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Pump Truck	20.00	81.4	1159.0			54.1	47.1
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1159.0			51.5	47.5
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1159.0			51.5	47.5
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1159.0			51.5	47.5
Terminal B Br	Concrete Pump Truck	20.00	81.4	802.0			57.3	50.3
Terminal B Br	Concrete Mixer Truck	40.00	78.8	802.0			54.7	50.7
Terminal B Br	Concrete Mixer Truck	40.00	78.8	802.0			54.7	50.7
Terminal B Br	Concrete Mixer Truck	40.00	78.8	802.0			54.7	50.7
North								
						OVERALL	LMAX	LEQ
							83.4	76.6
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal C Br	Vibratory Pile Driver	20.00	100.8	372.0			83.4	76.4
Terminal C Br	Concrete Pump Truck	20.00	81.4	572.0			60.2	53.2
Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7
Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7
Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7
Terminal C Br	Concrete Pump Truck	20.00	81.4	743.0			58.0	51.0
Terminal C Br	Concrete Mixer Truck	40.00	78.8	743.0			55.4	51.4
Terminal C Br	Concrete Mixer Truck	40.00	78.8	743.0			55.4	51.4
Terminal C Br	Concrete Mixer Truck	40.00	78.8	743.0			55.4	51.4
Terminal B Br	Concrete Pump Truck	20.00	81.4	633.0			59.4	52.4
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
North								
						OVERALL	LMAX	LEQ
							64.0	65.8
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal C Br	Concrete Pump Truck	20.00	81.4	372.0			64.0	57.0
Terminal C Br	Concrete Mixer Truck	40.00	78.8	372.0			61.4	57.4
Terminal C Br	Concrete Mixer Truck	40.00	78.8	372.0			61.4	57.4
Terminal C Br	Concrete Mixer Truck	40.00	78.8	372.0			61.4	57.4
Terminal C Br	Concrete Pump Truck	20.00	81.4	572.0			60.2	53.2
Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7
Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7

Terminal C Skycap
Construction Noise Analysis - Pedestrian Bridges

Terminal C Br	Concrete Mixer Truck	40.00	78.8	572.0			57.6	53.7
Terminal B Br	Concrete Pump Truck	20.00	81.4	633.0			59.4	52.4
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8
Terminal B Br	Concrete Mixer Truck	40.00	78.8	633.0			56.8	52.8

North

						OVERALL	LMAX	LEQ
							104.2	97.2

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	36.0			104.2	97.2
Terminal C Br	Concrete Pump Truck	20.00	81.4	1005.0			55.3	48.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Pump Truck	20.00	81.4	1159.0			54.1	47.1
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1159.0			51.5	47.5
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1159.0			51.5	47.5
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1159.0			51.5	47.5
Terminal B Br	Concrete Pump Truck	20.00	81.4	802.0			57.3	50.3
Terminal B Br	Concrete Mixer Truck	40.00	78.8	802.0			54.7	50.7
Terminal B Br	Concrete Mixer Truck	40.00	78.8	802.0			54.7	50.7
Terminal B Br	Concrete Mixer Truck	40.00	78.8	802.0			54.7	50.7

North

						OVERALL	LMAX	LEQ
							104.2	97.2

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	36.0			104.2	97.2
Terminal C Br	Concrete Pump Truck	20.00	81.4	1005.0			55.3	48.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8

North

						OVERALL	LMAX	LEQ
							104.2	97.2

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	36.0			104.2	97.2
Terminal C Br	Concrete Pump Truck	20.00	81.4	1005.0			55.3	48.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal C Br	Concrete Mixer Truck	40.00	78.8	1005.0			52.7	48.8
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	250.0			67.4	60.4
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8

North

						OVERALL	LMAX	LEQ
							104.2	97.2

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	36.0			104.2	97.2
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	250.0			67.4	60.4
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8

North

						OVERALL	LMAX	LEQ
							104.2	97.2

**Terminal C Skycap
Construction Noise Analysis - Pedestrian Bridges**

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	36.0			104.2	97.2
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	250.0			67.4	60.4
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	449.0			62.3	55.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
North								
						OVERALL	LMAX	LEQ
							104.2	97.2
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	36.0			104.2	97.2
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	250.0			67.4	60.4
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	449.0			62.3	55.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal C Br	Concrete Pump Truck	20.00	81.4	748.0			57.9	50.9
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
North								
						OVERALL	LMAX	LEQ
							84.3	83.7
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	36.0			84.3	77.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	250.0			67.4	60.4
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal C Br	Concrete Pump Truck	20.00	81.4	748.0			57.9	50.9
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
North								
						OVERALL	LMAX	LEQ
							84.3	83.7
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	36.0			84.3	77.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	250.0			67.4	60.4
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	449.0			62.3	55.3

Terminal C Skycap
Construction Noise Analysis - Pedestrian Bridges

Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal C Br	Concrete Pump Truck	20.00	81.4	748.0			57.9	50.9
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3

North

						OVERALL	LMAX	LEQ
							103.7	96.7

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Vibratory Pile Driver	20.00	100.8	36.0			103.7	96.7
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	250.0			67.4	60.4
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	250.0			64.8	60.8
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	449.0			62.3	55.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	449.0			59.7	55.8
Terminal C Br	Concrete Pump Truck	20.00	81.4	748.0			57.9	50.9
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3

North

						OVERALL	LMAX	LEQ
							84.3	83.6

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	36.0			84.3	77.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal C Br	Concrete Pump Truck	20.00	81.4	748.0			57.9	50.9
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3
Terminal C Br	Concrete Mixer Truck	40.00	78.8	748.0			55.3	51.3

						OVERALL	LMAX	LEQ
							77.1	70.1

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
P4 Br	Impact Pile Driver	20.00	101.3	811.0			77.1	70.1

						OVERALL	LMAX	LEQ
							76.6	69.6

Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
P4 Br	Vibratory Pile Driver	20.00	100.8	811.0			76.6	69.6

North

						OVERALL	LMAX	LEQ
							57.2	56.5

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
P4 Br	Concrete Pump Truck	20.00	81.4	811.0			57.2	50.2
P4 Br	Concrete Mixer Truck	40.00	78.8	811.0			54.6	50.6
P4 Br	Concrete Mixer Truck	40.00	78.8	811.0			54.6	50.6

**Terminal C Skycap
Construction Noise Analysis - Pedestrian Bridges**

P4 Br	Concrete Mixer Truck	40.00	78.8	811.0			54.6	50.6
North								
						OVERALL	LMAX	LEQ
							84.3	83.6
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	36.0			84.3	77.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	36.0			81.7	77.7
North								
						OVERALL	LMAX	LEQ
							76.6	70.1
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
P4 Br	Vibratory Pile Driver	20.00	100.8	809.0			76.6	69.6
P4 Br	Concrete Pump Truck	20.00	81.4	811.0			57.2	50.2
P4 Br	Concrete Mixer Truck	40.00	78.8	811.0			54.6	50.6
P4 Br	Concrete Mixer Truck	40.00	78.8	811.0			54.6	50.6
P4 Br	Concrete Mixer Truck	40.00	78.8	811.0			54.6	50.6
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	750.0			57.9	50.9
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	750.0			55.3	51.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	750.0			55.3	51.3
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	750.0			55.3	51.3

Terminal B Skycap
Construction Noise Analysis - Pedestrian Bridges

						OVERALL	LMAX	LEQ
							105.5	98.5
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Term B Bridge	Impact Pile Driver	20.00	101.3	31.0			105.5	98.5
						OVERALL	LMAX	LEQ
							105.0	98.0
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Term B Bridge	Vibratory Pile Driver	20.00	100.8	31.0			105.0	98.0
						OVERALL	LMAX	LEQ
							105.5	98.5
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Impact Pile Driver	20.00	101.3	31.0			105.5	98.5
	Concrete Pump Truck	20.00	81.4	156.0			71.5	64.5
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
						OVERALL	LMAX	LEQ
							71.5	98.5
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Impact Pile Driver	20.00	101.3	31.0			105.5	98.5
	Concrete Pump Truck	20.00	81.4	156.0			71.5	64.5
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
	Concrete Pump Truck	20.00	81.4	307.0			65.6	58.6
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1
						OVERALL	LMAX	LEQ
							85.6	85.1
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Concrete Pump Truck	20.00	81.4	31.0			85.6	78.6
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0
	Concrete Pump Truck	20.00	81.4	156.0			71.5	64.5
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9
North								
						OVERALL	LMAX	LEQ
							71.5	85.1
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
	Concrete Pump Truck	20.00	81.4	31.0			85.6	78.6
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0
	Concrete Pump Truck	20.00	81.4	156.0			71.5	64.5

Terminal B Skycap
Construction Noise Analysis - Pedestrian Bridges

	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9	
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9	
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9	
	Concrete Pump Truck	20.00	81.4	307.0			65.6	58.6	
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1	
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1	
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1	
						OVERALL	LMAX	LEQ	
							71.5	98.0	
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	
	Vibratory Pile Driver	20.00	100.8	31.0			105.0	98.0	
	Concrete Pump Truck	20.00	81.4	156.0			71.5	64.5	
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9	
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9	
	Concrete Mixer Truck	40.00	78.8	156.0			68.9	64.9	
	Concrete Pump Truck	20.00	81.4	307.0			65.6	58.6	
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1	
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1	
	Concrete Mixer Truck	40.00	78.8	307.0			63.0	59.1	
						OVERALL	LMAX	LEQ	
							85.6	84.9	
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	
	Concrete Pump Truck	20.00	81.4	31.0			85.6	78.6	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
						OVERALL	LMAX	LEQ	
							88.5	86.5	
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	
	Vibratory Pile Driver	20.00	100.8	205.0			88.5	81.6	
	Concrete Pump Truck	20.00	81.4	31.0			85.6	78.6	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
						OVERALL	LMAX	LEQ	
							85.6	84.9	
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	
Terminal B Br	Concrete Pump Truck	20.00	81.4	31.0			85.6	78.6	
Terminal B Br	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
Terminal B Br	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
Terminal B Br	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
						OVERALL	LMAX	LEQ	
							85.6	86.7	
Term B Bridge	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	
	Impact Pile Driver	20.00	101.3	205.0			89.0	82.1	
	Concrete Pump Truck	20.00	81.4	31.0			85.6	78.6	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
	Concrete Mixer Truck	40.00	78.8	31.0			83.0	79.0	
						OVERALL	LMAX	LEQ	
							89.0	82.1	

Terminal B Skycap
Construction Noise Analysis - Pedestrian Bridges

	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	205.0			89.0	82.1
						OVERALL	LMAX	LEQ
							89.0	82.1
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	205.0			89.0	82.1
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	412.0			63.1	56.1
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
						OVERALL	LMAX	LEQ
							89.0	82.1
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Impact Pile Driver	20.00	101.3	205.0			89.0	82.1
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	412.0			63.1	56.1
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	604.0			59.8	52.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2
						OVERALL	LMAX	LEQ
							69.1	69.4
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	205.0			69.1	62.2
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	412.0			63.1	56.1
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
						OVERALL	LMAX	LEQ
							69.1	69.8
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	205.0			69.1	62.2
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	412.0			63.1	56.1
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	604.0			59.8	52.8
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2
						OVERALL	LMAX	LEQ
							88.5	81.6
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ

Terminal B Skycap
Construction Noise Analysis - Pedestrian Bridges

Terminal B-C Br	Vibratory Pile Driver	20.00	100.8	205.0			88.5	81.6	
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	412.0			63.1	56.1	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	412.0			60.5	56.5	
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	604.0			59.8	52.8	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	604.0			57.2	53.2	
						OVERALL	LMAX	LEQ	
							69.1	68.5	
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	205.0			69.1	62.2	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	205.0			66.5	62.6	
						OVERALL	LMAX	LEQ	
							81.9	81.3	
	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ	
Terminal B-C Br	Concrete Pump Truck	20.00	81.4	47.0			81.9	74.9	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	47.0			79.3	75.4	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	47.0			79.3	75.4	
Terminal B-C Br	Concrete Mixer Truck	40.00	78.8	47.0			79.3	75.4	

**Terminal One Skycap
Construction Noise Analysis - Superstructure**

GUIDEWAY SUPERSTRUCTURE

North								
						OVERALL	LMAX	LEQ
							72.0	65.0
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
X3	Impact Pile Driving	20.00	101.3	1455.0			72.0	65.0
North								
						OVERALL	LMAX	LEQ
							70.2	73.3
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y14	Concrete Pump Truck	20.00	81.4	255.0			67.2	60.3
Y14	Concrete Mixer Truck	40.00	78.8	255.0			64.6	60.7
Y14	Concrete Mixer Truck	40.00	78.8	255.0			64.6	60.7
Y14	Concrete Mixer Truck	40.00	78.8	255.0			64.6	60.7
Y13	Concrete Pump Truck	20.00	81.4	195.0			69.6	62.6
Y13	Concrete Mixer Truck	40.00	78.8	195.0			67.0	63.0
Y13	Concrete Mixer Truck	40.00	78.8	195.0			67.0	63.0
Y13	Concrete Mixer Truck	40.00	78.8	195.0			67.0	63.0
Y12	Concrete Pump Truck	20.00	81.4	181.0			70.2	63.2
Y12	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y12	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y12	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
North								
						OVERALL	LMAX	LEQ
							69.3	69.8
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y11	Concrete Pump Truck	20.00	81.4	222.0			68.5	61.5
Y11	Concrete Mixer Truck	40.00	78.8	222.0			65.9	61.9
Y11	Concrete Mixer Truck	40.00	78.8	222.0			65.9	61.9
Y11	Concrete Mixer Truck	40.00	78.8	222.0			65.9	61.9
Y8	Flat Bed Truck	40.00	74.3	184.0			63.0	59.0
Y8	Crane	16.00	80.6	184.0			69.3	61.3
Y7	Flat Bed Truck	40.00	74.3	234.0			60.9	56.9
Y7	Crane	16.00	80.6	234.0			67.2	59.2
North								
						OVERALL	LMAX	LEQ
							70.1	72.7
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y11	Concrete Pump Truck	20.00	81.4	186.0			70.0	63.0
Y11	Concrete Mixer Truck	40.00	78.8	186.0			67.4	63.4
Y11	Concrete Mixer Truck	40.00	78.8	186.0			67.4	63.4
Y11	Concrete Mixer Truck	40.00	78.8	186.0			67.4	63.4
Y10	Concrete Pump Truck	20.00	81.4	183.0			70.1	63.1
Y10	Concrete Mixer Truck	40.00	78.8	183.0			67.5	63.6
Y10	Concrete Mixer Truck	40.00	78.8	183.0			67.5	63.6
Y10	Concrete Mixer Truck	40.00	78.8	183.0			67.5	63.6
Y6	Flat Bed Truck	40.00	74.3	234.0			60.9	56.9
Y6	Crane	16.00	80.6	234.0			67.2	59.2
North								

**Terminal One Skycap
Construction Noise Analysis - Superstructure**

GUIDEWAY SUPERSTRUCTURE

North								
						OVERALL	LMAX	LEQ
							70.2	72.6
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y8	Concrete Pump Truck	20.00	81.4	188.0			69.9	62.9
Y8	Concrete Mixer Truck	40.00	78.8	188.0			67.3	63.3
Y8	Concrete Mixer Truck	40.00	78.8	188.0			67.3	63.3
Y8	Concrete Mixer Truck	40.00	78.8	188.0			67.3	63.3
Y9	Concrete Pump Truck	20.00	81.4	182.0			70.2	63.2
Y9	Concrete Mixer Truck	40.00	78.8	182.0			67.6	63.6
Y9	Concrete Mixer Truck	40.00	78.8	182.0			67.6	63.6
Y9	Concrete Mixer Truck	40.00	78.8	182.0			67.6	63.6
Y5	Flat Bed Truck	40.00	74.3	271.0			59.6	55.6
Y5	Crane	16.00	80.6	271.0			65.9	58.0
North								
						OVERALL	LMAX	LEQ
							70.1	71.7
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y8	Concrete Pump Truck	20.00	81.4	184.0			70.1	63.1
Y8	Concrete Mixer Truck	40.00	78.8	184.0			67.5	63.5
Y8	Concrete Mixer Truck	40.00	78.8	184.0			67.5	63.5
Y8	Concrete Mixer Truck	40.00	78.8	184.0			67.5	63.5
Y7	Concrete Pump Truck	20.00	81.4	234.0			68.0	61.0
Y7	Concrete Mixer Truck	40.00	78.8	234.0			65.4	61.4
Y7	Concrete Mixer Truck	40.00	78.8	234.0			65.4	61.4
Y7	Concrete Mixer Truck	40.00	78.8	234.0			65.4	61.4
Y4	Flat Bed Truck	40.00	74.3	327.0			58.0	54.0
Y4	Crane	16.00	80.6	327.0			64.3	56.3
North								
						OVERALL	LMAX	LEQ
							70.2	71.9
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y5	Concrete Pump Truck	20.00	81.4	181.0			70.2	63.2
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y4	Concrete Pump Truck	20.00	81.4	223.0			68.4	61.4
Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y1	Flat Bed Truck	40.00	74.3	387.0			56.5	52.5
Y1	Crane	16.00	80.6	387.0			62.8	54.9
North								
						OVERALL	LMAX	LEQ
							70.2	72.9
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y5	Concrete Pump Truck	20.00	81.4	181.0			70.2	63.2
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y4	Concrete Pump Truck	20.00	81.4	223.0			68.4	61.4

**Terminal One Skycap
Construction Noise Analysis - Superstructure**

GUIDEWAY SUPERSTRUCTURE

North

Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y3	Concrete Pump Truck	20.00	81.4	261.0			67.0	60.1
Y3	Concrete Mixer Truck	40.00	78.8	261.0			64.4	60.5
Y3	Concrete Mixer Truck	40.00	78.8	261.0			64.4	60.5
Y3	Concrete Mixer Truck	40.00	78.8	261.0			64.4	60.5
X16	Flat Bed Truck	40.00	74.3	500.0			54.3	50.3
X16	Crane	16.00	80.6	500.0			60.6	52.6

North

						OVERALL	LMAX	LEQ
							70.2	73.5

Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y5	Concrete Pump Truck	20.00	81.4	181.0			70.2	63.2
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y5	Concrete Mixer Truck	40.00	78.8	181.0			67.6	63.6
Y4	Concrete Pump Truck	20.00	81.4	223.0			68.4	61.4
Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y4	Concrete Mixer Truck	40.00	78.8	223.0			65.8	61.8
Y3	Concrete Pump Truck	20.00	81.4	261.0			67.0	60.1
Y3	Concrete Mixer Truck	40.00	78.8	261.0			64.4	60.5
Y3	Concrete Mixer Truck	40.00	78.8	261.0			64.4	60.5
Y3	Concrete Mixer Truck	40.00	78.8	261.0			64.4	60.5
Y2	Concrete Pump Truck	20.00	81.4	316.0			65.4	58.4
Y2	Concrete Mixer Truck	40.00	78.8	316.0			62.8	58.8
Y2	Concrete Mixer Truck	40.00	78.8	316.0			62.8	58.8
Y2	Concrete Mixer Truck	40.00	78.8	316.0			62.8	58.8
X15	Flat Bed Truck	40.00	74.3	500.0			54.3	50.3
X15	Crane	16.00	80.6	500.0			60.6	52.6

North

						OVERALL	LMAX	LEQ
							70.7	73.8

Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
Y2	Concrete Pump Truck	20.00	81.4	240.0			67.8	60.8
Y2	Concrete Mixer Truck	40.00	78.8	240.0			65.2	61.2
Y2	Concrete Mixer Truck	40.00	78.8	240.0			65.2	61.2
Y2	Concrete Mixer Truck	40.00	78.8	240.0			65.2	61.2
Y1	Concrete Pump Truck	20.00	81.4	185.0			70.0	63.0
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5
X16	Concrete Pump Truck	20.00	81.4	171.0			70.7	63.7
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1

North

						OVERALL	LMAX	LEQ
							70.7	72.7
Pier	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ

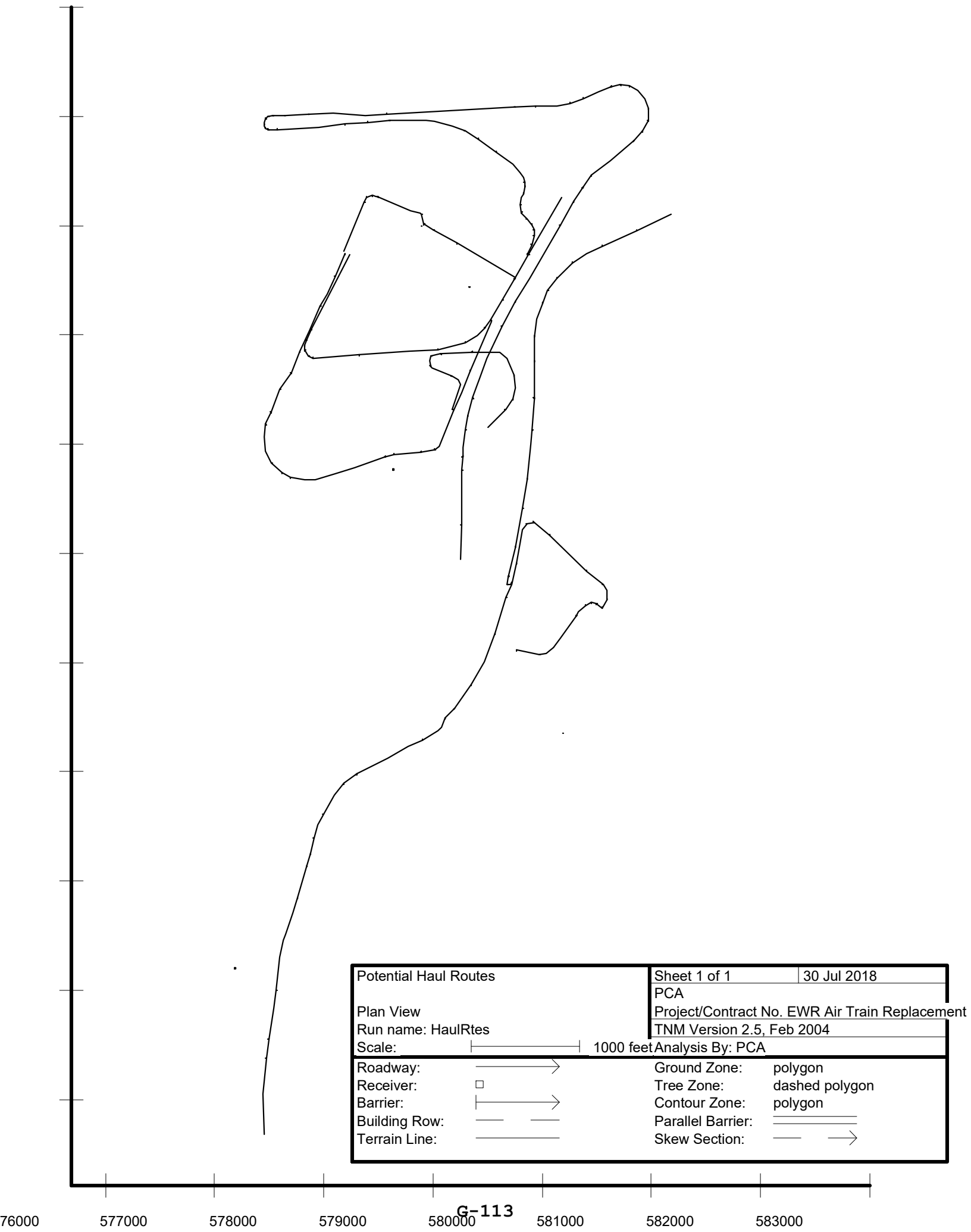
**Terminal One Skycap
Construction Noise Analysis - Superstructure**

GUIDEWAY SUPERSTRUCTURE

North								
X16	Concrete Pump Truck	20.00	81.4	171.0			70.7	63.7
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1
Y1	Concrete Pump Truck	20.00	81.4	185.0			70.0	63.0
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5
North								
						OVERALL	LMAX	LEQ
							70.7	74.2
AREA	EQUIPMENT	U.F.	LEVEL	DISTANCE	SHIELDING		LMAX	LEQ
X16	Concrete Pump Truck	20.00	81.4	171.0			70.7	63.7
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1
X16	Concrete Mixer Truck	40.00	78.8	171.0			68.1	64.1
X15	Concrete Pump Truck	20.00	81.4	197.0			69.5	62.5
X15	Concrete Mixer Truck	40.00	78.8	197.0			66.9	62.9
X15	Concrete Mixer Truck	40.00	78.8	197.0			66.9	62.9
X15	Concrete Mixer Truck	40.00	78.8	197.0			66.9	62.9
Y1	Concrete Pump Truck	20.00	81.4	185.0			70.0	63.0
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5
Y1	Concrete Mixer Truck	40.00	78.8	185.0			67.4	63.5

Construction Noise Analysis

Off-Site (Mobile) Sources



G-113

RESULTS: SOUND LEVELS

EWR Air Train Replacement

PCA								30 July 2018				
PCA								TNM 2.5				
								Calculated with TNM 2.5				
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		EWR Air Train Replacement										
RUN:		Potential Haul Routes										
BARRIER DESIGN:		INPUT HEIGHTS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.			
ATMOSPHERICS:		68 deg F, 50% RH										
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Receiver 1 - Best Western	3	1	0.0	52.1	66	52.1	10	----	52.1	0.0	8	-8.0
Receiver 2 - Wynham Gardens	4	1	0.0	43.8	66	43.8	10	----	43.8	0.0	8	-8.0
Receiver 3 - Holiday Inn	5	1	0.0	44.6	66	44.6	10	----	44.6	0.0	8	-8.0
Receiver 6 - Marriott	7	1	0.0	33.2	66	33.2	10	----	33.2	0.0	8	-8.0
Receiver 4 - Hilton	8	1	0.0	36.7	66	36.7	10	----	36.7	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		5	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

Construction Vibration Analysis

Vibration Source Level Information

Equipment Type	Annoyance		Damage	
	Reference Source Level at 25 ft (Upper Range) (Lv VdB)	Reference Source Level at 25 ft (Typical) (Lv VdB)	Reference Source Level at 25 ft (Upper Range) (PPV in/sec)	Reference Source Level at 25 ft (Typical) (PPV in/sec)
Vibratory Pile Driver	105	93	0.734	0.17
Impact Pile Driver	112	104	1.518	0.644
Hoe Ram	87	N/A	0.089	N/A

Note: Conservatively, the upper range value was used for impact and vibratory pile drivers; however, the typical range value for impact pile drivers was used to calculate the reduced distance to impact should the contractor be required to pre-auger before pile installation.

Source: Vibration source levels were obtained from Table 7-4 of FTA's Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123, September 2018.

Construction Vibration Analysis Distance to Impact Thresholds

Driving Pile Foundations (Impact Pile Driver)

Upper Range							Upper Range		
Category	Annoyance Threshold (VdB)			Distance to Annoyance Threshold (ft)			Category	Damage Threshold (in/sec)	Distance to Damage Threshold (ft)
	Frequent	Occasional	Infrequent	Frequent	Occasional	Infrequent			
Category 1	65	65	65	921.74	921.74	921.74	Category I.	0.5	52.42
Category 2	72	75	80	538.61	427.83	291.48	Category II.	0.3	73.68
Category 3	75	78	83	427.83	339.84	231.53	Category III.	0.2	96.55
Typical							Category IV.	0.12	135.73
Category	Annoyance Threshold (VdB)			Distance to Annoyance Threshold (ft)			Typical		
	Frequent	Occasional	Infrequent	Frequent	Occasional	Infrequent	Category	Damage Threshold (in/sec)	Distance to Damage Threshold (ft)
Category 1	65	65	65	498.82	498.82	498.82	Category I.	0.5	29.59
Category 2	72	75	80	291.48	231.53	157.74	Category II.	0.3	41.60
Category 3	75	78	83	231.53	183.91	125.30	Category III.	0.2	54.51
							Category IV.	0.12	76.63

Sheeting Installation (Vibratory Pile Driver)

Category	Annoyance Threshold (VdB)			Distance to Annoyance Threshold (ft)			Category	Damage Threshold (in/sec)	Distance to Damage Threshold (ft)
	Frequent	Occasional	Infrequent	Frequent	Occasional	Infrequent			
Category 1	65	65	65	538.61	538.61	538.61	Category I.	0.5	32.29
Category 2	72	75	80	314.73	250.00	170.32	Category II.	0.3	45.39
Category 3	75	78	83	250.00	198.58	135.29	Category III.	0.2	59.48
							Category IV.	0.12	83.61

Demo of Existing Alignment (Hoe Ram)

Category	Annoyance Threshold (VdB)			Distance to Annoyance Threshold (ft)			Category	Damage Threshold (in/sec)	Distance to Damage Threshold (ft)
	Frequent	Occasional	Infrequent	Frequent	Occasional	Infrequent			
Category 1	65	65	65	135.29	135.29	135.29	Category I.	0.5	7.91
Category 2	72	75	80	79.06	62.80	42.78	Category II.	0.3	11.12
Category 3	75	78	83	62.80	49.88	33.98	Category III.	0.2	14.57
							Category IV.	0.12	20.48