

**Appendix B**  
**Airfield Safety Enhancement and Geometry Study -**  
**Environmental Inventory**

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## **TASK WORK ORDER 8**

# **PROGRAM DEFINITION AND ENVIRONMENTAL ASSESSMENTS FOR AIRFIELD SAFETY ENHANCEMENT IMPROVEMENTS AT NORTH PERRY AIRPORT**

## **ELEMENT B INVENTORY – TASK B-2**

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## AIRPORT INVENTORY

This inventory was conducted to identify, collect, review, and summarize relevant information needed to support subsequent analytical tasks. This inventory focused on the collection of environmental features, land use, zoning, and information of value to the planning related activities associated with airfield safety improvement alternatives at North Perry Airport (HWO).

A file and literature search was conducted for existing environmental features on and immediately adjacent to the Airport, to the extent of data available.

### **Environmental Features:**

- Floodplains
- Wetlands
- Endangered and Threatened Species
- Stormwater and Water Quality
- Contamination
- Noise Sensitive Receptors
- Population Characteristics and Densities
- Historic, Cultural, or Architecturally significant features

## 1.0 General Site Conditions

### 1.1 Site Layout

The North Perry Airport is a 488-acre airport located in the city of Pembroke Pines. The airport has two sets of parallel runways, running from north to south and east to west. Tenant facilities and other aviation buildings are located along the southern and western portions of the Airport, and, along the north-western quadrant (between the two north-south runways). An airport access roadway runs along the perimeter of the Airport along the north, south and west of the Airport.

### 1.2 Site Topography

The area is relatively flat at an elevation of 0-10 feet. There are some surface waters in the area, including a canal along University Drive, and a few lakes and ponds mostly on the west side.

## 2.0 Environmental Considerations

### 2.1 Air Quality

Air quality issues and regulations are overseen by the United States Environmental Protection Agency (USEPA), via the Federal Clean Air Act (CAA) (42 U.S.C. §§ 7401-7671q), which has established National Ambient Air Quality Standards (NAAQS) for six pollutants. These pollutants are:

- carbon monoxide (CO),
- lead (Pb),
- nitrogen dioxide (NO<sub>2</sub>),
- ozone (O<sub>3</sub>),
- particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) and;

- sulfur dioxide (SO<sub>2</sub>).

The air quality is monitored in Broward County by the Broward County Air Quality Division (BAQD). There are currently eight (8) monitoring sites within Broward County that are monitored by BAQD, the closest of which is monitoring station 34, located southwest of the intersection of Griffin Road and South University Drive in Davie. The maximum concentrations of the pollutants monitored at this station during 2015 -2016 were:

**Table 1– Air Quality Monitoring Data for Broward County – Monitoring Station 34**

| Pollutant         | Maximum Concentration (Year: 2015-2016) |
|-------------------|---|
| Carbon Monoxide   | 1 PPM (8 Hour)                          |
| Lead              | NM                                      |
| Nitrogen Oxide    | NM                                      |
| Ozone             | 66 PPB (8 Hour)                         |
| PM <sub>10</sub>  | NM                                      |
| PM <sub>2.5</sub> | 15.2 µg/m <sup>3</sup>                  |
| Sulfur Dioxide    | 1 PPM (1 Hour)                          |

Source: Florida Department of Environmental Protection Air Quality Monitoring

Note: PPM = Parts per million

PPB = Parts per billion

µg/m<sup>3</sup> = milligrams per cubic meter

NM = Not Monitored

Readings at Monitoring Station 34 were within the acceptable limits established by the National Ambient Air Quality Standards (NAAQS), with the exception of sulfur dioxide. Sulfur Dioxide data is averaged by the NAAQS for a period of 3 years, for which only 2 years of data was available for review via Florida Department of Environmental Protection (FDEP) Air Quality Monitoring Database. Geographic areas where these standards are not met for the preceding criteria pollutants are normally designated as “nonattainment areas.” However, as per the USEPA Green Book database, Broward County has not been designated as a nonattainment area. Therefore, the air quality within the county meets the NAAQS requirements.

During periods of construction, renovation or demolition activities at the Airport, air quality control measures should be utilized to maintain the air quality within the allowable limits.

## 2.2 Floodplains

Executive Order 11988 directs federal agencies to “take action to reduce the risk of flood loss, minimize the impact of floods on human safety, health and welfare, and restore and preserve the natural and beneficial values served by floodplains”. Floodplains are low lying areas normally adjacent to a river or are formed by historical flooding. Department of Transportation (DOT) Order 5650.2, Floodplain Management and Protection, contains DOT’s policies and procedures for implementing the Executive Order. The



Executive Order and the DOT order establish a policy to avoid taking action within a 100-year floodplain, where practicable. FEMA has published Flood Insurance Rate Maps (FIRM) in support of the National Flood Insurance Program for the U.S.

The Airport received a re-designation on November 12, 2015, via a Letter of Map Revision (LOMR) which changed the Federal Emergency Management Agency (FEMA) zoning for the Airport. This letter notified of proposed flood hazard determinations affecting the Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for the City of Pembroke Pines, Broward County, FL.

These determinations were for South Broward Drainage District Canal No. 1 - area centroid at approximately 4,200 feet southeast of Pines Boulevard and South University Drive. South Broward Drainage District Canal No. 1 – previously classified as Flood Zone AH (1% annual chance of flooding) was revised to Flood Zone X (0.2% to minimal annual chance of flooding), which represents a decreased flood risk in that area.

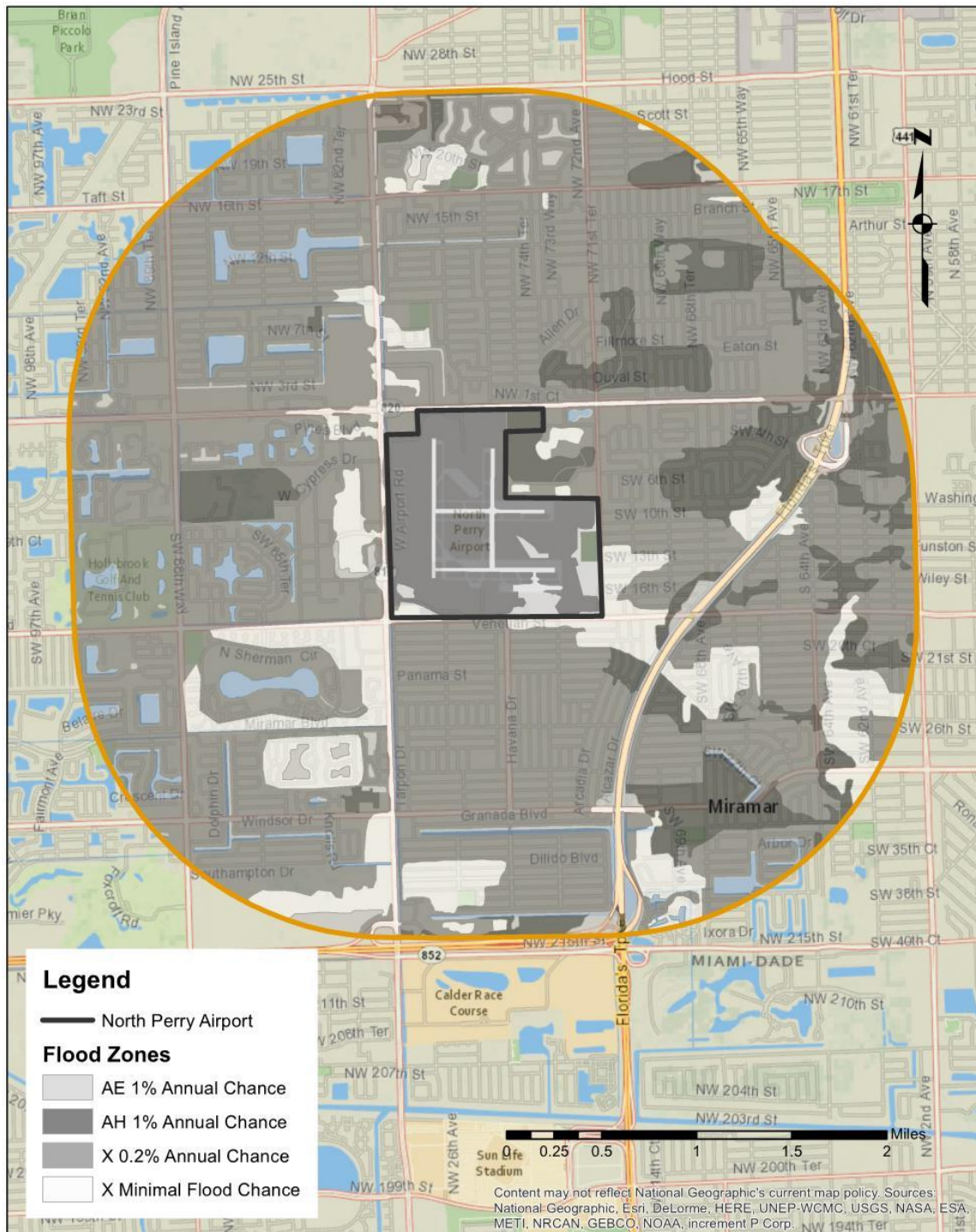
The modifications are pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

Floodways are described by FEMA as the channels of a river/watercourse and adjacent land areas which must be reserved in order to discharge a 100-year flood (base flood) without any increase in water surface elevations more than a designated height. There are no floodways located within the Airport boundaries.

The Airport and most of the surrounding areas are Zone X (minimal flooding to a 0.2% annual chance of flooding) as shown in **Figure 1**. with the exception of a few areas to the northeast, southeast and west of the Airport. Immediately adjacent to the northeast Airport boundary the area is FEMA zone AH, subject to inundation by a 1-percent-annual-chance of shallow flooding (usually areas of ponding), where average depths are between one and three feet. Other areas around the Airport are also designated as Zone AH and Zone AE, which are areas subject to a flooding event with a 1% annual chance of occurrence.

Base Flood Elevations (BFEs), which are the elevations to which floodwater is anticipated to rise during a base (1% annual chance) flood event, and; which are derived from detailed hydraulic analyses, are shown in this zone. Mandatory flood insurance purchase requirements and floodplain management standards apply.

**Figure 1** depicts the different flood zones in the study area; see **Appendix A** for a copy of the LOMR mentioned above.



**Figure 1 – Floodplain Features**

AE: 1%-annual-chance of flooding; BFEs determined  
 AH: 1%-annual-chance-of-flooding; BFEs determined, flood depth range from 1-3 feet  
 X (shaded): 0.2%-annual-chance of flooding  
 X (unshaded): minimal-annual-chance of flooding.

## 2.3 Wetlands

Wetlands and other jurisdictional “Waters of the U.S.” are protected under Sections 401 and 404 of the Clean Water Act (CWA) and Executive Order (EO) 11990, Protection of Wetlands. Agencies that regulate impacts on water resources include the U.S. Army Corps of Engineers (USACE), the U.S. Environmental Protection Agency (USEPA), Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), and the U.S. Fish and Wildlife Service (USFWS). The USACE is the primary regulatory authority enforcing Section 404 requirements.

Section 404 of the CWA regulates the discharge of dredge and fill material into U.S. waters and wetlands. This includes: fill for development; water resource projects – such as dams and levees; infrastructure development – such as highways and airports; and conversion of wetlands to uplands for farming and forestry. According to the USEPA’s Section 404(b) 1 guidelines, project proponents must avoid and minimize impacts to U.S. waters and wetlands at the project site to the maximum extent practicable. For those impacts that are determined to be unavoidable – compensatory mitigation may be required either through regional conditioning or on a case-by-case basis. Mitigation could include replacement, purchasing credits in a wetland mitigation bank, or in-lieu fee.

Wetlands within the immediate vicinity (1.5 miles from Airport boundary) include several freshwater ponds/lakes and canals. All surface waters in the area were artificially developed. A major canal is located along the western airport boundary abutting the east right-of-way line of University Drive. This canal extends from Sheridan Street, approximately two miles north of the airport and; south approximately 4.8 miles to the vicinity of Sun Life Stadium, which is approximately 2.3 miles south of the southern boundary of HWO. A tributary canal is also located approximately three quarters of a mile north of the airport, running along an east-west axis, which feeds into the main canal at a point just north of NW 13th Street. A second tributary canal extends around the east and north sides of a commercial/multi-family area, located in the northeast quadrant of the intersection of Pines Boulevard and University Drive. There are a number of man-made ponds and lake features of varying sizes, in the vicinity (1.5 miles) of, and predominantly to the west, of the airport. **Figure 2** depicts the North Perry Airport and wetlands that lie within the indicated 1.5-mile radius.



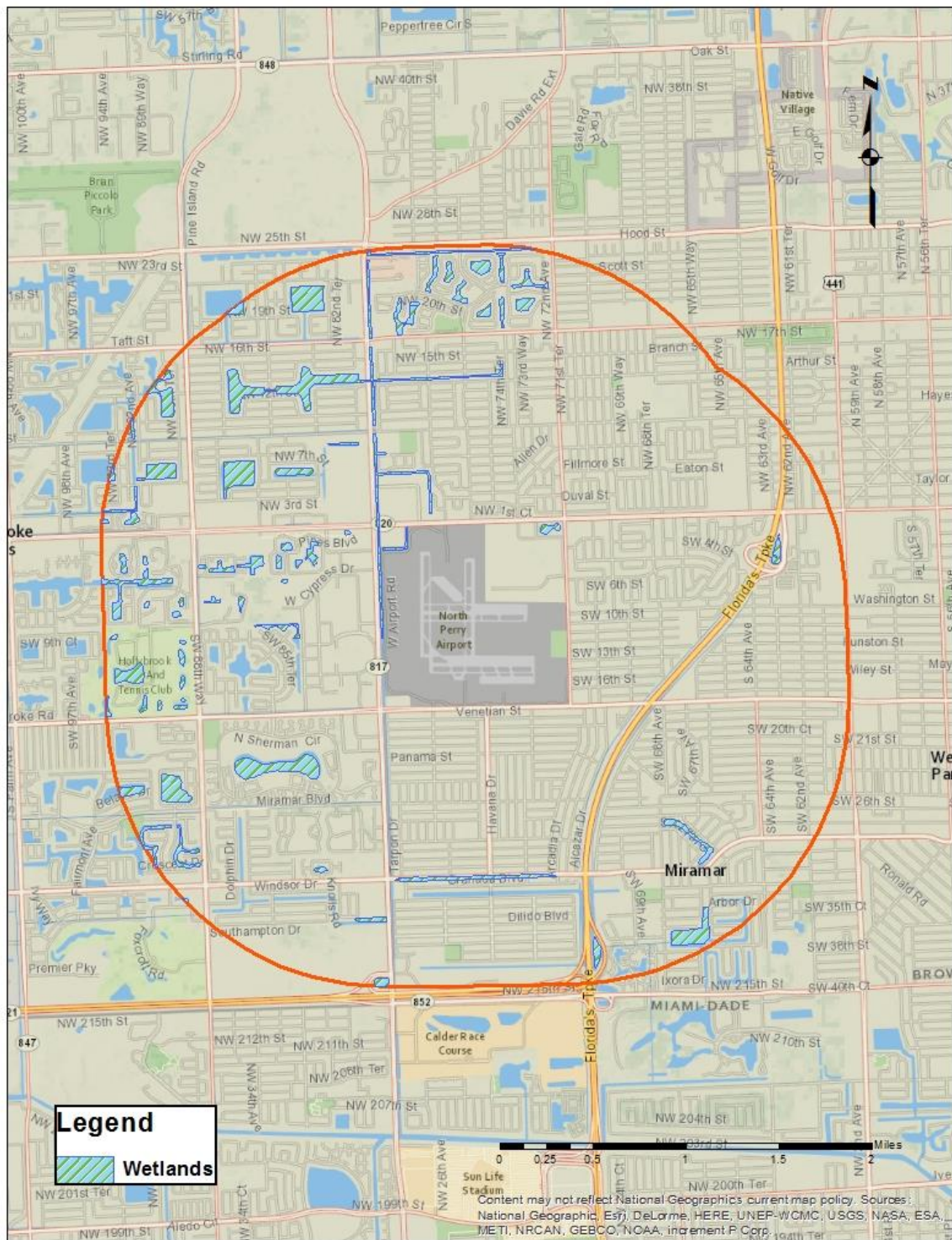


Figure 2 –Wetland Features

## 2.4 Endangered and Threatened Species

Several statutes protect the fish, wildlife, and plant resources of the U.S., including Migratory Bird Treaty Act (MBTA) of 1918, the Fish and Wildlife Coordination Act (FWCA) of 1958, the Endangered Species Act (ESA) of 1973, and the Fish and Wildlife Conservation Act of 1980.

The ESA, as amended, was enacted to provide a program for the preservation of endangered and threatened species and the ecosystems upon which they depend for survival. The ESA requires federal agencies, including the FAA, to implement protection programs for listed species and to use their authorities to further the purposes of the Act.

The desktop review did not identify critical habitats in the immediate vicinity of the Airport; however, there are still considerations to be made concerning endangered and threatened species within Broward County. Prior to future development, a walk-through of the site by a qualified wildlife biologist is advised, since the 2009 North Perry Airport Master Plan Update reported that there were 18 burrowing owl nests within the vicinity of the Airport, including several on Airport property. While the burrowing owl is not a threatened or endangered species in Florida, it is considered a Species of Special Concern. As a Species of Special Concern, it is illegal to pursue, hunt, capture, molest or kill burrowing owls and their nest burrows and eggs without a permit. However, permit issuance is considered a last resort after all other options have been exhausted and, permits are only issued for inactive nesting sites. The State of Florida, Fish and Wildlife Conservation Commission recommend that a minimum 50-foot buffer zone be established for construction that occurs in the vicinity of a burrowing owl nest.

**Table 2** lists potential endangered and threatened species in Broward County based on the FWS data and some of these species could potentially exist in the vicinity of the Airport.

**Table 2—Endangered and Threatened Species in Broward County**

| Common Name                   | Scientific Name  | Status                                       |
|-------------------------------|--|--|
| Everglade snail kite          | <i>Rostrhamussociabilisplumbeus</i>                        | Endangered                                   |
| Wood stork                    | <i>Mycteriaamericana</i>                                   | Threatened                                   |
| Audubon's crested caracara    | <i>Polyborusplancusaudubonii</i>                           | Threatened                                   |
| Red knot                      | <i>Calidriscanutus</i>                                     | Threatened                                   |
| Okeechobee gourd              | <i>Cucurbita okeechobeensis</i> ssp. <i>okeechobeensis</i> | Endangered                                   |
| Beach jacquemontia            | <i>Jacquemontiareclinata</i>                               | Endangered                                   |
| Tiny polygala                 | <i>Polygala smallii</i>                                    | Endangered                                   |
| <i>Florida panther *</i>      | <i>Puma concolorcoryi</i>                                  | <i>Endangered</i>                            |
| Southeastern beach mouse      | <i>Peromyscuspolionotusniveiventris</i>                    | Threatened                                   |
| <i>Puma (mountain lion) *</i> | <i>Puma concolor (all subsp. except coryi)</i>             | <i>Similarity of Appearance (Threatened)</i> |
| American alligator            | <i>Alligator mississippiensis</i>                          | Similarity of Appearance (Threatened)        |
| Eastern indigo snake          | <i>Drymarchoncoraiscouperi</i>                             | Threatened                                   |
| Gopher tortoise               | <i>Gopheruspolyphemus</i>                                  | Candidate                                    |

Source: fws.gov

\*Note: This table provides a general list of species that may occur within the County but, some species, e.g. those in *italics*, are unlikely to be found within the vicinity of the Airport.

## 2.5 Hazardous Materials and Contamination

A number of leaseholds of varying usage are located at HWO. These on-airport facilities store and use materials that are considered potential contaminant sources of concern, including on-site fuel tanks and drums, chemicals used for mosquito control, and various other pesticides. The following table provides a brief overview of the onsite fuel facilities, the fuel type and capacity:

**Table 3 – On Airport Fuel Facilities**

| Facility  | Fuel Type | Gallons | FDEP Facility Number |
|---|-----------|---------|----------------------|
| Helicopters Inc. (Self Fueling only)  | Jet A     | 12,000  | 9810414              |
| Bobby's Landings  | AvGas     | 15,000  | 8502130              |
|   | Jet A     | 10,000  |                      |
| Hollywood Aviation  | AvGas     | 10,000  | 8502238              |
| Pelican Flight Training   | AvGas     | 10,000  | 9813751              |
| North Perry Central (Planning stage - not installed as of 12/7/15) PRC Approved Plans call for: | AvGas     | 12,000  |                      |
|   | Jet A     | 12,000  |                      |
| Broward County Vehicle Fuel Depot is at Mosquito Control  | MoGas     | 2,500   | 8622327              |
|   | Diesel    | 2,500   |                      |

Source: FDEP MapDirect  
North Perry Airport Master Plan Update

Fuel facilities and storage tanks are always a potential environmental issue and should be monitored and inspected regularly.

According to the 2009 North Perry Airport Master Plan Update, two (2) 1,200 gallon tanks of permethrin (biomist) are located on site at the Broward County Mosquito Control. The chemical, permethrin, is used to assist in the control of Broward County's mosquito population. Permethrin is toxic to felines, fish and other aquatic animals. The same report identifies fourteen (14) 30-gallon drums of Naled, another chemical used to prevent mosquitoes, located on site. This insecticide is toxic to a number of organisms, including aquatic life, mammals and birds. There are also various types of larvacides, repellants, weed killers, sorbents, aircraft oils, and gases maintained in a separate storage room located inside the Broward County Mosquito Control's (BCMC's) building. The Florida Department of Environmental Protection (FDEP) has issued the BCMC a Pesticide/ Chemical & Hazardous Materials Storage Facility License Number: HS-01909-05. The Storage Tank Registration for gasoline and above ground pesticide tanks is issued as FDEP Facility ID Number: 8622327.

Contamination is generally associated with industrial wastes, petroleum products, dangerous goods or other contaminants (such as metals from roadways). The regulations governing hazardous materials, as it applies to Airport development actions, are found in the Resource Conservation and Recovery Act (RCRA), the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and the Community Environmental Response Facilitation Act (CERFA). These statutes address the use, storage and disposal of hazardous materials and the environmental threats caused by mishandling these materials. To protect from potentially large cleanup costs and legal liabilities, Airport sponsors should – to the extent

possible – avoid hazardous waste sites and contaminated property that could affect, or be affected by, an Airport development project.

This analysis was conducted using Broward County’s on-line inventory of contaminated sites, and only currently contaminated sites on the Airport and within a 1.5-mile radius of Airport boundaries were recorded. Areas of historical contamination, where clean-up has been completed and; the site has been granted closure for contamination, are not included in the summary information below. There are a total of 22 contaminated sites observed within the area using information from the County. However, none of the contaminated sites are located on Airport property. **Table 4** provides a summary of the contaminated sites within a 1.5-mile radius, inclusive of petroleum, dry cleaning and unknown contaminant sources. **Figure 3** shows sites of potential concern including: small quantity generators of waste, petroleum contamination, and dry-cleaning facilities.

**Table 4 – Existing Contaminated Sites**

| Facility Name                           | Address                      | Facility Type | Pollutant        | Distance (mi) |
|---|------------------------------|---------------|------------------|---------------|
| <b>Shell Sinisi &amp; Conrad Inc</b>    | 8000 Pines Blvd              | Gas station   | Gasoline         | <0.1          |
| <b>Amoco Station #2216</b>              | 7000 Pines Blvd.             | Gas station   | Petroleum        | <0.1          |
| <b>South FL State Hospital</b>          | 1000 SW 84 <sup>th</sup> Ave | Fuel Facility | Mixed Product    | 0.1           |
| <b>AJ Petroleum</b>                     | 1720 S University Dr         | Gas station   | Gasoline         | <0.1          |
| <b>Twin Oil Mini Shop</b>               | 7520 Pembroke Rd             | Gas station   | Petroleum        | <0.1          |
| <b>Millen’s Auto Service</b>            | 6810 Pembroke Rd             | Auto Repair   | Petroleum        | 0.5           |
| <b>All Tool Rental Inc</b>              | 6401 Pembroke Rd             | Warehouse     | Diesel; gasoline | 0.9           |
| <b>BP Oil Station (formerly)</b>        | 1700 N University Dr         | Gas station   | Petroleum        | 1.0           |
| <b>Fina #7369</b>                       | 6924 Miramar Pkwy            | Gas station   | Gasoline         | 1.0           |
| <b>Cumberland Farm #906</b>             | 7039 Taft St                 | Gas station   | Gasoline         | 1.1           |
| <b>Hollybrook Golf</b>                  | 900 Hollybrook Dr.           | Recreation    | Petroleum        | 1.1           |
| <b>MNV Energy</b>                       | 6200 Hollywood Blvd          | Gas Station   | Petroleum        | 1.2           |
| <b>Pembroke Pines City Fuel Station</b> | 9500 Pines Blvd              | Gas Station   | Petroleum        | 1.4           |
| <b>Dawn Laundry</b>                     | 6890 Miramar Pkwy            | Dry-clean     | Chlorinated      | 1.0           |
| <b>Aristocrat Cleaners</b>              | 6745 Pembroke Rd             | Dry-clean     | chlorinated      | 0.5           |
| <b>Lamar 1-hour Cleaners</b>            | 6430 Pembroke Rd             | Dry-clean     | Chlorinated      | 0.9           |
| <b>University Drycleaners Inc</b>       | 100 S University Dr.         | Dry-clean     | Chlorinated      | <0.1          |

| Facility Name                        | Address              | Facility Type | Pollutant   | Distance (mi) |
|--------------------------------------|----------------------|---------------|-------------|---------------|
| <b>Parkway Plaza Cleaners</b>        | 3284 S University Dr | Dry-clean     | Chlorinated | 1.0           |
| <b>Pines Cleaners</b>                | 8911 Pembroke Rd     | Dry-clean     | Chlorinated | 1.1           |
| <b>Millionaire's Drycleaners</b>     | 6313 Miramar Pkwy    | Dry-clean     | Chlorinated | 1.3           |
| <b>Holiday Plaza French Cleaners</b> | 9147 Taft St         | Dry-clean     | chlorinated | 1.5           |

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Source: Broward County Contaminated Sites Database  
FDEP MapDirect



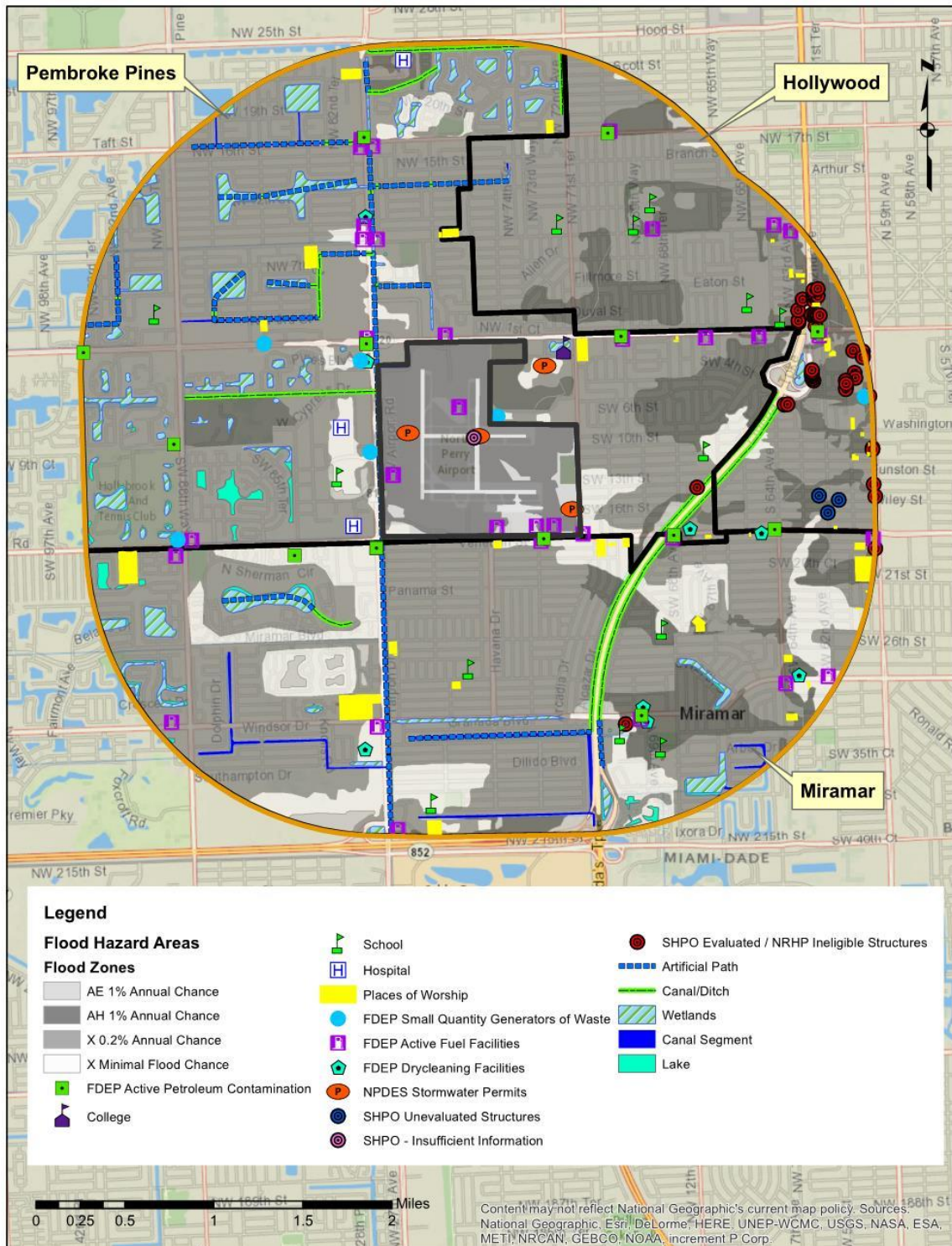


Figure 3 – General Environmental and Contamination Features

Historical contamination was documented at five (5) onsite locations at HWO, as shown in **Table 5**. However, none of the sites are listed as currently contaminated within the FDEP database (storage tanks and contamination). Therefore, these sites are not considered areas of concern due to existing contamination.

**Table 5 – On-Airport Historically Contaminated Sites**

| Facility                               | FDEP Facility Number | FDEP Status  |
|--|----------------------|--|
| <b>Bobby's Landings</b>                | 8502130              | Cleanup Not Required/Not Currently Contaminated                            |
| <b>EADS Socata North America, Inc.</b> | 9809642              | Site Rehabilitation Completion Report Completed/Not Currently Contaminated |
| <b>Air Support Resources</b>           | 9046313              | Not Currently Contaminated   |
| <b>US Border Patrol</b>                | 8943806              | Site Rehabilitation Completion Report Completed/Not Currently Contaminated |
| <b>Broward County Mosquito Control</b> | 8622327              | Cleanup Not Required/Not Currently Contaminated                            |

Source: FDEP MapDirect

## 2.6 Noise Sensitive Receptors

In the Aviation Safety and Noise Abatement Act (ASNA) of 1979, the FAA and other government entities established guidelines for noise compatibility based on annoyance. Both the Code of Federal Regulations (CFR) Title 14 CFR Part 150 and FAA Order 1050.1F, Environmental Impacts: Policies and Procedures, define the significance threshold for noise and noise-compatible land use as: “the action [that] would increase noise by Day-Night Average Sound Level (DNL) 1.5 dB or more for a noise sensitive area that is exposed to noise at or above the DNL 65 dB noise exposure level, or that will be exposed at or above the cumulative DNL 65 dB level due to a DNL 1.5 dB or greater increase, when compared to the no action alternative for the same timeframe. For example, an increase from DNL 65.5 dB to 67 dB is considered a significant impact, as is an increase from DNL 63.5 dB to 65 dB.”

Aircraft noise is generally one of the largest airport land use concerns – particularly for neighboring residents. To address this issue, the FAA has adopted land use compatibility guidelines (summarized in **Table 6**) to examine the compatibility of land uses in and around airport boundaries for existing and projected noise levels. It specifies the compatibility parameters (i.e., acceptable noise level) for residential, public, commercial, manufacturing, production and recreational land uses.

**Table 6 – Land Use Compatibility Guidelines**

| Land use   | Yearly day-night average sound level (L <sub>dn</sub> ) in decibels |       |       |       |       |         |
|--|---|-------|-------|-------|-------|---------|
|  | Below 65  | 65-70 | 70-75 | 75-80 | 80-85 | Over 85 |
| <b>Residential</b>   |   |       |       |       |       |         |
| Residential, other than mobile homes and transient lodgings          | Y   | N(1)  | N(1)  | N     | N     | N       |
| Mobile home parks  | Y   | N     | N     | N     | N     | N       |
| Transient lodgings   | Y   | N(1)  | N(1)  | N(1)  | N     | N       |
| <b>Public Use</b>  |   |       |       |       |       |         |
| Schools  | Y   | N(1)  | N(1)  | N     | N     | N       |
| Hospitals and nursing homes  | Y   | 25    | 30    | N     | N     | N       |
| Churches, auditoriums, and concert halls                             | Y   | 25    | 30    | N     | N     | N       |
| Governmental services  | Y   | Y     | 25    | 30    | N     | N       |
| Transportation   | Y   | Y     | Y(2)  | Y(3)  | Y(4)  | Y(4)    |
| Parking  | Y   | Y     | Y(2)  | Y(3)  | Y(4)  | N       |
| <b>Commercial Use</b>  |   |       |       |       |       |         |
| Offices, business and professional                                   | Y   | Y     | 25    | 30    | N     | N       |
| Wholesale and retail—building materials, hardware and farm equipment | Y   | Y     | Y(2)  | Y(3)  | Y(4)  | N       |
| Retail trade—general   | Y   | Y     | 25    | 30    | N     | N       |
| Utilities  | Y   | Y     | Y(2)  | Y(3)  | Y(4)  | N       |
| Communication  | Y   | Y     | 25    | 30    | N     | N       |
| <b>Manufacturing and Production</b>                                  |   |       |       |       |       |         |
| Manufacturing, general   | Y   | Y     | Y(2)  | Y(3)  | Y(4)  | N       |
| Photographic and optical   | Y   | Y     | 25    | 30    | N     | N       |
| Agriculture (except livestock) and forestry                          | Y   | Y(6)  | Y(7)  | Y(8)  | Y(8)  | Y(8)    |
| Livestock farming and breeding                                       | Y   | Y(6)  | Y(7)  | N     | N     | N       |
| Mining and fishing, resource production and extraction               | Y   | Y     | Y     | Y     | Y     | Y       |
| <b>Recreational</b>  |   |       |       |       |       |         |
| Outdoor sports arenas and spectator sports                           | Y   | Y(5)  | Y(5)  | N     | N     | N       |
| Outdoor music shells, amphitheaters                                  | Y   | N     | N     | N     | N     | N       |
| Nature exhibits and zoos   | Y   | Y     | N     | N     | N     | N       |
| Amusements, parks, resorts and camps                                 | Y   | Y     | Y     | N     | N     | N       |
| Golf courses, riding stables and water recreation                    | Y   | Y     | 25    | 30    | N     | N       |

(1) Where the community determines that residential or school uses must be allowed, measures to achieve outdoor to indoor Noise Level Reduction (NLR) of at least 25 dB and 30 dB should be incorporated into building codes and be considered in individual approvals. Normal residential construction can be expected to provide a NLR of 20 dB, thus, the reduction requirements are often stated as 5, 10 or 15 dB over standard construction and normally assume mechanical ventilation and closed windows year round. However, the use of NLR criteria will not eliminate outdoor noise problems.

(2) Measures to achieve NLR 25 dB must be incorporated into the design and construction of portions of these buildings where the public is received, office areas, noise sensitive areas or where the normal noise level is low.

(3) Measures to achieve NLR of 30 dB must be incorporated into the design and construction of portions of these buildings where the public is received, office areas, noise sensitive areas or where the normal noise level is low.

(4) Measures to achieve NLR 35 dB must be incorporated into the design and construction of portions of these buildings where the public is received, office areas, noise sensitive areas or where the normal level is low.

(5) Land use compatible provided special sound reinforcement systems are installed.

(6) Residential buildings require an NLR of 25.

(7) Residential buildings require an NLR of 30.

(8) Residential buildings not permitted.

**Table 7** below lists institutional land uses within a 1.5 mile-radius of the airport considered sensitive to noise levels in excess of 65 DNL along with their approximate distance from North Perry Airport. Inclusion of a facility within **Table 7** does not mean that the facility is located within any noise exposure contour nor does it suggest that the facility experiences a level of aircraft noise of 65 DNL or higher.

**Table 7 – Noise Sensitive Receptor Facilities and Distance**

| <b>Facility Name</b>                        | <b>Type</b> | <b>Address</b>       | <b>City</b>    | <b>Zip Code</b> | <b>Distance (mi)</b> |
|---|-------------|----------------------|----------------|-----------------|----------------------|
| <b>Broward College</b>                      | College     | 7200 Pines Blvd      | Pembroke Pines | 33024           | <0.5                 |
| <b>Geocare-South Florida State Hospital</b> | Hospital    | 800 E Cypress Dr     | Pembroke Pines | 33025           | <0.5                 |
| <b>Memorial Hospital Pembroke</b>           | Hospital    | 7800 Sheridan St     | Pembroke Pines | 33024           | 1 – 1.5              |
| <b>Florida Bible Church Inc.</b>            | Religious   | 9300 Pembroke Rd     | Miramar        | 33025           | 1 – 1.5              |
| <b>Archdiocese of Miami</b>                 | Religious   | 8005 Miramar Pkwy    | Miramar        | 33025           | 0.5 – 1              |
| <b>Miramar United Methodist Church</b>      | Religious   | 2612 Utopia Dr       | Miramar        | 33023           | 0.5 – 1              |
| <b>Miramar United Methodist Church</b>      | Religious   | 2507 Utopia Dr       | Miramar        | 33023           | 0.5 – 1              |
| <b>Church of God New Life Worship</b>       | Religious   | 7680 Pembroke Rd     | Miramar        | 33023           | < 0.5                |
| <b>St John the Baptist Coptic</b>           | Religious   | 7851 Riviera Blvd    | Miramar        | 33023           | 1 – 1.5              |
| <b>Miramar Evangelical</b>                  | Religious   | 7790 LaSalle Blvd    | Miramar        | 33023           | 0.5 – 1              |
| <b>Korean Immanuel Mission</b>              | Religious   | 2200 N University Dr | Pembroke Pines | 33024           | 1 – 1.5              |
| <b>Taft Street Baptist Church Inc.</b>      | Religious   | 7241 Taft St         | Pembroke Pines | 33024           | 1                    |
| <b>Comunidad Cristiana Pembroke</b>         | Religious   | 8527 Pines Blvd      | Pembroke Pines | 33024           | 0.5 – 1              |
| <b>Archdiocese of Miami</b>                 | Religious   | 8330 Johnson St      | Pembroke Pines | 33024           | 0.5                  |
| <b>Epworth Methodist Church Inc.</b>        | Religious   | 7741 Johnson St      | Pembroke Pines | 33024           | < 0.5                |
| <b>Epworth Methodist Church Inc.</b>        | Religious   | 7651 Johnson St      | Hollywood      | 33024           | 0.5                  |
| <b>Trinity Lutheran Church Inc.</b>         | Religious   | 7150 Pines Blvd      | Pembroke Pines | 33024           | < 0.5                |
| <b>Boulevard Bible Chapel</b>               | Religious   | 6800 Pines Blvd      | Pembroke Pines | 33024           | 0.5 – 1              |
| <b>Hollywood Florida Congregation</b>       | Religious   | 6045 Duval St        | Hollywood      | 33024           | 1 – 1.5              |
| <b>Holy Cross Romanian Orthodox</b>         | Religious   | 6230 Fillmore St     | Hollywood      | 33024           | 1 – 1.5              |
| <b>Calvary Assemble of God</b>              | Religious   | 300 N 62 Ave         | Hollywood      | 33024           | 1 – 1.5              |
| <b>Holy Cross Romanian Orthodox</b>         | Religious   | 6232 Fillmore St     | Hollywood      | 33024           | 1 – 1.5              |

| Facility Name                                | Type      | Address             | City           | Zip Code | Distance (mi) |
|--|-----------|---------------------|----------------|----------|---------------|
| <b>Advent Christian Cathedral Inc.</b>       | Religious | 725 N 64 Ave        | Hollywood      | 33024    | 1 – 1.5       |
| <b>Hermon Community Services Center</b>      | Religious | 6114 Fillmore St    | Hollywood      | 33024    | 1 – 1.5       |
| <b>Iglesia De Dios Pentecostal</b>           | Religious | 131 S 62 Ave        | Hollywood      | 33023    | 1 – 1.5       |
| <b>Iglesia De Dios Pentecostal</b>           | Religious | 130 S 61 Ter        | Hollywood      | 33024    | 1 – 1.5       |
| <b>New Life Pentecostal Church</b>           | Religious | 116 SW 61 Ter       | Hollywood      | 33023    | 1 – 1.5       |
| <b>New Life Pentecostal Church</b>           | Religious | 6136 Van Buren St   | Hollywood      | 33023    | 1 – 1.5       |
| <b>Harvest Fire Worship Center</b>           | Religious | 6024 Washington St  | Hollywood      | 33023    | 1 – 1.5       |
| <b>Florida District of the Wesley</b>        | Religious | 6095 Funston St     | Hollywood      | 33023    | 1 – 1.5       |
| <b>Highway Holiness Church Christ</b>        | Religious | 6010 Dawson St      | Hollywood      | 33023    | 1 – 1.5       |
| <b>First International Pentecostal</b>       | Religious | 6099 Washington St  | Hollywood      | 33023    | 1 – 1.5       |
| <b>Joval Inc.</b>                            | Religious | 6010 Dewey St       | Hollywood      | 33023    | 1 – 1.5       |
| <b>Haitian Missionary Baptist</b>            | Religious | 1730 Acapulco Dr    | Miramar        | 33023    | < 0.5         |
| <b>Haitian Missionary Baptist</b>            | Religious | 1731 Alcazar Dr     | Miramar        | 33023    | < 0.5         |
| <b>Triumphant Church of Jesus</b>            | Religious | 7000 Pembroke Rd    | Miramar        | 33023    | < 0.5         |
| <b>Pembroke Road Baptist Church</b>          | Religious | 7130 Pembroke Rd    | Miramar        | 33023    | < 0.5         |
| <b>New Harvest Spanish Christian</b>         | Religious | 6660 Pembroke Rd    | Pembroke Pines | 33023    | 0.5 – 1       |
| <b>Charismatic Episcopal Church</b>          | Religious | 6701 SW 25 St       | Miramar        | 33023    | 0.5 – 1       |
| <b>Lighthouse Holiness Church</b>            | Religious | 6337 SW 27 St       | Miramar        | 33023    | 1 – 1.5       |
| <b>Iglesia Alianza Cristiana Y Misionera</b> | Religious | 6141 Pembroke Rd    | Hollywood      | 33023    | 1 – 1.5       |
| <b>Holiness Born Again Church of</b>         | Religious | 6452 Pembroke Rd    | Miramar        | 33023    | 1 – 1.5       |
| <b>Archdiocese of Miami</b>                  | Religious | 2000 S State Road 7 | Miramar        | 33023    | 1 – 1.5       |
| <b>Holy Trinity Romanian Orthodox</b>        | Religious | 1850 SW 60 Ter      | Miramar        | 33023    | 1 – 1.5       |
| <b>Iglesias De Alcance Misionero</b>         | Religious | 6040 SW 23 St       | Miramar        | 33023    | 1 – 1.5       |
| <b>Tabernacle</b>                            | Religious | 2118 SW 60 Ter      | Miramar        | 33023    | 1 – 1.5       |
| <b>Jerusalem Community Church</b>            | Religious | 6390 SW 32 St       | Miramar        | 33023    | 1 – 1.5       |



| Facility Name                          | Type                         | Address              | City           | Zip Code | Distance (mi) |
|--|------------------------------|----------------------|----------------|----------|---------------|
| <b>Hands of Life Worship Center</b>    | Religious                    | 6248 Miramar Pkwy    | Miramar        | 33023    | 1 – 1.5       |
| <b>Miramar Evangelical Free</b>        | Religious                    | 6390 SW 32 St        | Miramar        | 33023    | 1 – 1.5       |
| <b>Pine Island Baptist Church Inc.</b> | Religious                    | 6301 Fillmore St     | Hollywood      | 33024    | 1 – 1.5       |
| <b>Hollywood Park Elementary</b>       | School                       | 901 N 69 Way         | Hollywood      | 33024    | 0.5 – 1       |
| <b>McArthur High</b>                   | School                       | 6501 Hollywood Blvd  | Hollywood      | 33024    | 1             |
| <b>Pines Middle</b>                    | School                       | 200 N Douglas Rd     | Pembroke Pines | 33024    | 1 – 1.5       |
| <b>Apollo Middle</b>                   | School                       | 6800 Arthur St       | Hollywood      | 33024    | 0.5 – 1       |
| <b>Boulevard Heights Elementary</b>    | School                       | 7201 Johnson St      | Hollywood      | 33024    | 0.5 – 1       |
| <b>West Hollywood Elementary</b>       | School                       | 6301 Hollywood Blvd  | Hollywood      | 33024    | 1 – 1.5       |
| <b>Pembroke Pines Elementary</b>       | School                       | 6700 SW 9 St         | Pembroke Pines | 33023    | 0.5 – 1       |
| <b>Memorial Manor</b>                  | Nursing Home                 | 777 S Douglas Road   | Pembroke Pines | 33025    | 0.5-1         |
| <b>Susan B Anthony Recovery Center</b> | Medical (Addiction Recovery) | 1633 Poinciana Drive | Pembroke Pines | 33025    | <0.5          |
| <b>Fairway Elementary</b>              | School                       | 7850 Fairway Blvd    | Miramar        | 33023    | 1 – 1.5       |
| <b>Sunshine Elementary</b>             | School                       | 7737 W LaSalle Blvd  | Miramar        | 33023    | 0.5 – 1       |
| <b>Miramar Elementary</b>              | School                       | 6831 SW 26 St        | Miramar        | 33023    | 0.5 – 1       |
| <b>Henry D. Perry Middle</b>           | School                       | 3400 Wildcat Way     | Miramar        | 33023    | 1 – 1.5       |
| <b>Early Education Center</b>          | School                       | 1627 Poinciana Drive | Pembroke Pines | 33025    | <0.5          |

In addition to the institutional land uses identified above, the majority of the surrounding land use consists of residential sites, both multi-family and single family; which are located to the north, south, east and west of the Airport. These sites are also subject to the same considerations as highlighted in **Table 6**. However, as with the institutional land uses, this does not mean that these residences are located within any noise exposure contour nor does it suggest that these residential areas experience a level of aircraft noise above 65 DNL.

**Figure 4** displays these institutional noise sensitive receptors in the immediate vicinity of the Airport. Types of facilities that were included: schools, hospitals, and places of worship.

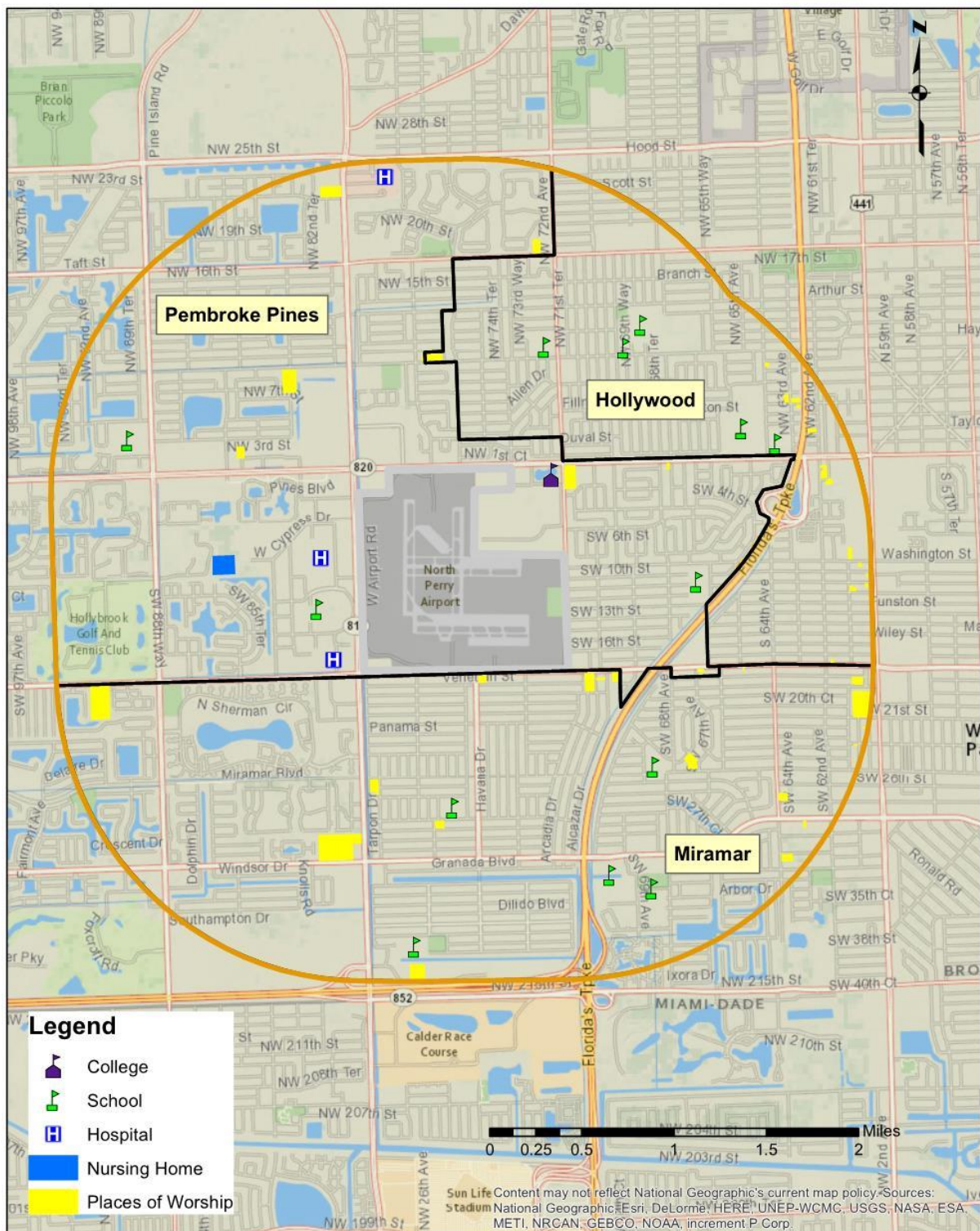


Figure 4 –Noise Sensitive Receptors

## 2.7 Stormwater and Water Quality

Water quality guidelines are set forth in Section 401 of the CWA. The USEPA has authority to regulate water quality and require permits for actions that could adversely affect water quality. This is achieved primarily by issuing permits through the National Pollutant Discharge Elimination System (NPDES) under Section 401 of the CWA and for dredge and fill permitting under Section 404 of the CWA. The FDEP manages the NPDES process within the State.

NPDES permits are required for all point-source storm water runoff from industrial activities. This includes Airport activities such as deicing, fueling, and maintaining aircraft. The North Perry Airport has obtained a Multisector Generic Permit which expires in February 2021; see **Appendix B** for a copy of the NPDES Permit. All best management practices and monitoring requirements to be performed by the Airport are outlined in the permit. Three other facilities within the boundaries of the Airport have obtained No Exposure Certifications (NEX), meaning all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain or runoff; these facilities include: Broward Community College, Van Wagner Aerial Media LLC, and Air Superiority Inc.

Construction activities that loosen soil could potentially cause sedimentation in downstream water bodies during precipitation. This could result in increased water temperature and lower concentrations of dissolved oxygen, which could be detrimental to aquatic life. For development projects that disturb more than one acre of land, a Generic Permit for Stormwater Discharge from Large and Small Construction Activities must be obtained from the FDEP. This permit requires the development of a Stormwater Pollution Prevention Plan (SWPPP) for construction-related impacts.

The ongoing development of airside and landside facilities could result in new impervious surfaces which, in turn, would result in increased stormwater runoff. However, in addition to the new construction, the activities at the Airport also include pavement demolition. The Airport also has large grassed areas that currently accommodate the stormwater needs at the Airport and there is available space on Airport property to accommodate new stormwater upgrades and enhancements. With these potential changes, an Environmental Resource Permit (ERP) might be needed or need to be updated and, as such, coordination with the SFWMD will be required prior to and during construction.

## 3.0 Land Use and Zoning

The Airport encompasses approximately 488 acres of land bound by University Drive to the west, Pembroke Road to the south, SW 72<sup>nd</sup> Street to the east, and Pines Boulevard to the north. The land use in the vicinity of the North Perry Airport is depicted in **Figure 5**. Land Use descriptions are designated by Broward County.

A characterized list of land use from greatest to smallest land cover is as follows:

- Residential, medium density, single family
- Institutional, education/hospital
- Commercial, Shopping
- Residential, High Density, Multiple Dwelling
- Transportation, Airport and Roadways
- Recreational, Parks and Zoos
- Water, Reservoirs
- Water, Streams and Waterways
- Open Land, Urban



The Airport is surrounded by mostly residential property, and some institutional and commercial property. Single family residential land use and zoning is located immediately adjacent to the north, east and south of the airport. Some Multi-family development occurs in the study limits with some of the more significant examples being Pines Place to the west and the Ashlar Apartments and Heron Pointe Apartments to the southwest. The most significant concentrations of commercial use are location along Pines Boulevard, notably near the intersection of Pines Boulevard and University Drive and further west at Pines Boulevard and SW 89th Avenue. Other smaller pockets of commercial use are found at the northeast corner of Pines Boulevard and SW 72<sup>nd</sup> Avenue and, at the south east corner of the Airport at Pembroke Road and SW 72<sup>nd</sup> Avenue.

In accordance with FAA Order 1050.1F, the compatibility of existing and planned land uses in the vicinity of an airport is focused on two main issues: noise in the community and the safety of persons and property both on the ground and in the air. The FAA requires that airport sponsors seek compatible uses for the land surrounding an airport through appropriate positive control (fee-simple or easement acquisition) and coordinated zoning and municipal planning efforts.

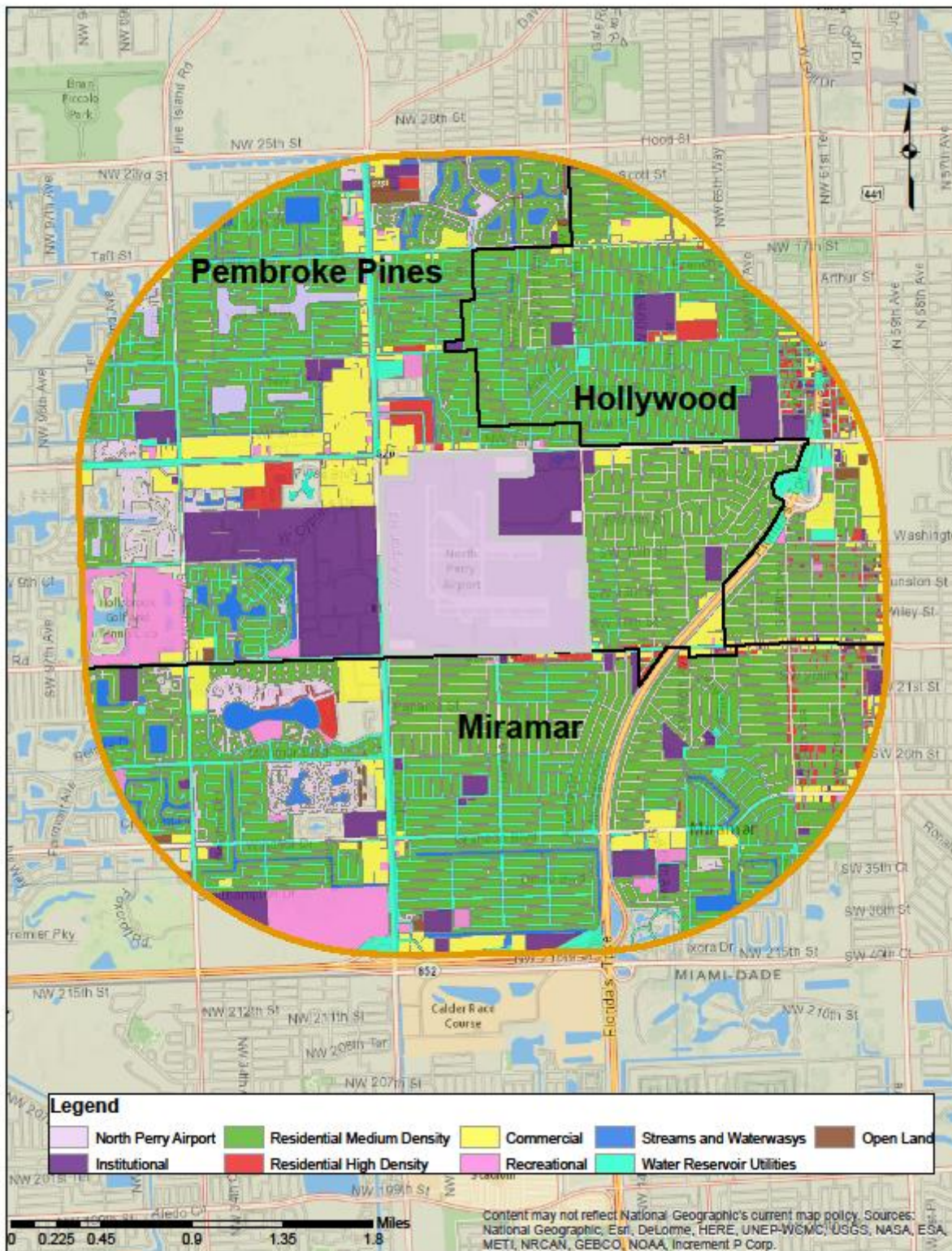


Figure 5 – Land Use by County

### 3.1 City Zoning

Each city in the study area has created their own zoning codes, in addition to the general land usage characterizations provided by Broward County. While these designations are different within each city, as further detailed in **Appendix C** of this report, the designations follow the characterizations established within Broward County. The summary data provided in **Appendix C** was obtained from the Florida Geographic Data Library (FGDL).

The majority of the residential development is classified in all three cities with a zoning code that initiates with the letter “R”, e.g. R1-C (Pembroke Pines), RS-5 (Miramar), RS-6 (Hollywood). However, other residential designations occur within the study area. For example, three Planned Unit Developments (PUD) are inside the area: one approximately 1 mile north of the airport, one to the immediate south west and one approximately 1.5 miles to the southeast. The area to the north consists of the Walnut Creek single-family unit development. The area to the south-west includes the “Ashlar Apartments” and “Heron Pointe Apartments” multi-family residential properties. The PUD to the southeast consists of the “Woodscape Town Homes”. In addition, commercial properties are also further separated into sub-categories. City zoning designations are provided as shown in **Figure 6**.

As per Chapter 153 of the Pembroke Pines Code of Ordinances, all properties within the immediate vicinity of the Airport are required to comply with federal regulations regarding tree canopy height. Article 4 of the Hollywood Code of Ordinances also states that a PUD within the city is subject to airport zoning standards and requirements. Such ordinances influence the profile of the adjacent facilities and landscaping in the vicinity of the Airport.



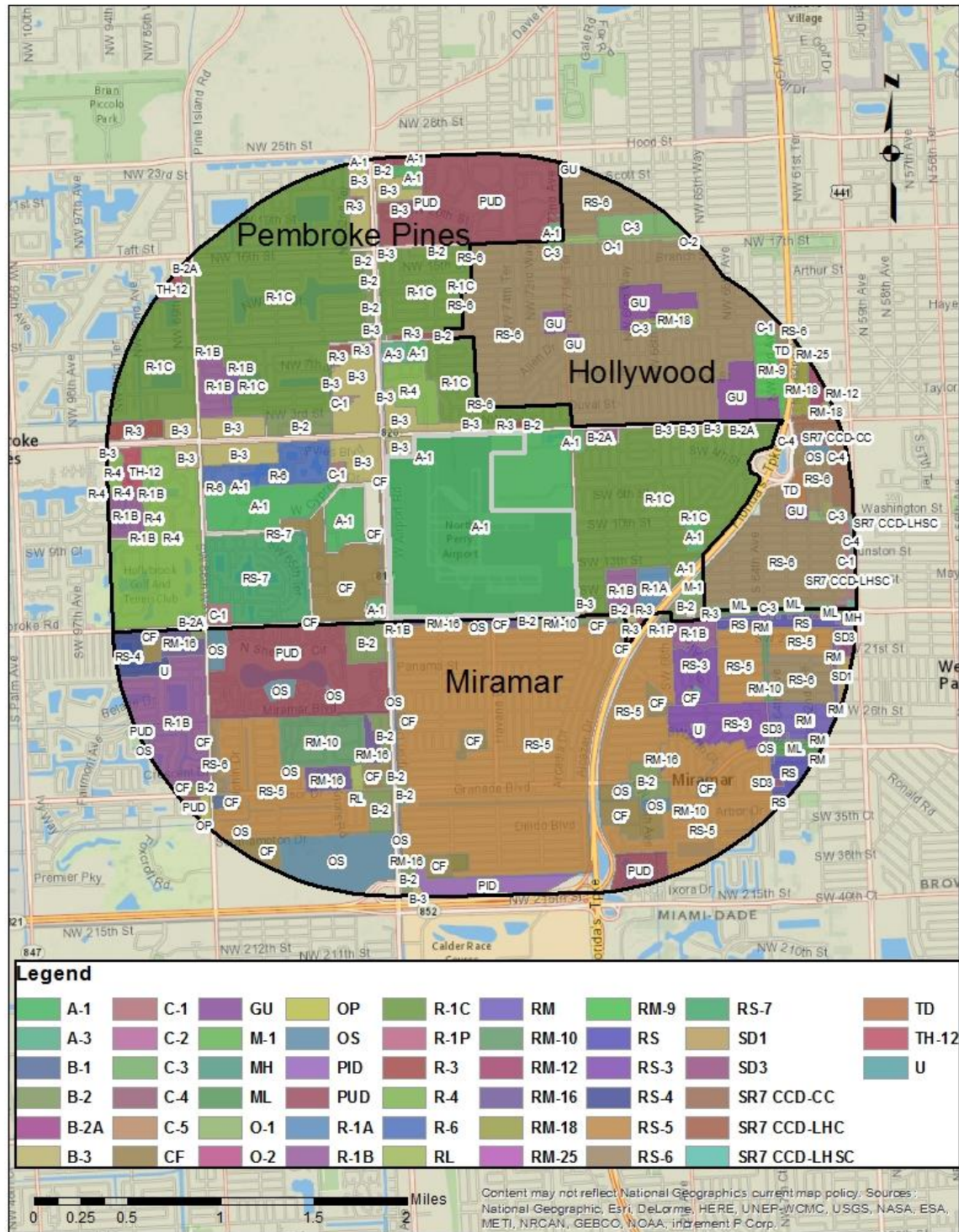


Figure 6 – Zoning Codes by City

### 3.2 Section 4(f) and 6(f) Resources

The Department of Transportation Act (DOT Act) of 1966 (Title 49, USC Section 1653 (f); amended and re-codified in 49 USC Section 303) includes a special provision, Section 4(f), which stipulates the Secretary of Transportation will not approve any program or project that requires the use of land from publicly owned parks, recreational areas, wildlife and waterfowl refuges, lands of state or local significance, or public and private historical sites. Section 6(f) of the Land and Water Conservation Fund Act (L&WCFA) [16 USC, Section 4601 et. seq.]; 36 Code of Federal Regulations (CFR) Part 59] prohibits the taking of lands purchased with L&WCFA funds. The Secretary of Transportation has jurisdiction over Section 4(f) lands and the Department of the Interior and National Park Service have jurisdiction over Section 6(f). Section 4(f) sites within the vicinity of HWO are listed below:

**Table 8 – Section 4(f) Resources**

| No. | Site Name               | Site Address                 | City           | Distance from Airport (miles) |
|-----|-------------------------|------------------------------|----------------|-------------------------------|
| 1   | Maxwell Park            | 1200 SW 72 <sup>nd</sup> Ave | Pembroke Pines | <0.5                          |
| 2   | Pines Recreation Center | 7400 Pines Blvd              | Pembroke Pines | <0.5                          |

Source: North Perry Airport Master Plan Update

### 3.3 Historic, Cultural, or Architectural Significant Features

The National Register of Historic Places (NRHP) is an official listing of historically significant sites and properties throughout the country and is maintained by the National Park Service; an agency of the U.S. Department of the Interior. The State Historic Preservation Office (SHPO) reviews nominations for properties to be included in the NRHP, in order to coordinate and support public and private efforts to identify, evaluate, and protect America's historic and archeological resources. Sites eligible for placement on the NRHP list are considered worthy of preservation.

According to the Florida Geographic Data Library (FGDL) database, as summarized in **Table 9**, there are 48 structures that have been identified as potentially significant historic resources. As previously depicted in **Figure 3**, all but one of these are located east of the Airport, and east of University Drive, in the cities of Hollywood and Pembroke Pines. Of these 48 structures, 43 have been determined by the SHPO to be in-eligible for the NRHP, 3 have not yet been evaluated and 1 lacks sufficient information for a determination. Only 1, located on Airport property, has been determined to be eligible and it is listed as having been destroyed. However, as per information received from the Florida Department of State-Division of Historical Resources (DHR), the Airport is listed as a resource group, due the Airport's connection with World War II activities. It is listed under the Florida Master Site File as a historical resource (See **Appendix D**). Coordination with DHR should be initiated prior to planned construction at the Airport.

The SHPO-evaluated structures identified within a 1.5-mile radius of the Airport are listed below in **Table 9** (and are previously depicted in **Figure 3**).

**Table 9– SHPO Structures**

| <b>No.</b> | <b>Site Name</b>                     | <b>Site Address</b>    | <b>Building Type</b>                     | <b>SHPO Status</b>    |
|------------|--------------------------------------|------------------------|--|-----------------------|
| <b>1</b>   | 6100 FLAGLER STREET                  | 6100 FLAGLER STREET    | PRIVATE RESIDENCE                        | NOT EVALUATED BY SHPO |
| <b>2</b>   | 113 NW 63RD AVE.                     | 113 NW 63RD AVE        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>3</b>   | 115 NW 63RD AVE                      | 115 NW 63RD AVE        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>4</b>   | 151 NW 63RD AVE.                     | 151 NW 63RD AVE        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>5</b>   | 6230 POLK ST.                        | 6230 POLK ST           | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>6</b>   | 6103 MAYO ST                         | 6103 MAYO ST           | PRIVATE RESIDENCE                        | NOT EVALUATED BY SHPO |
| <b>7</b>   | 6131 MAYO ST                         | 6131 MAYO ST           | PRIVATE RESIDENCE                        | NOT EVALUATED BY SHPO |
| <b>8</b>   | 515 SW 61ST AVENUE                   | 515 SW 61ST AVE        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>9</b>   | 519 SW 61ST AVENUE                   | 519 SW 61ST AVE        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>10</b>  | 523 SW 61ST AVENUE                   | 523 SW 61ST AVE        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>11</b>  | HOLLYWOOD KIA SERVICE                | 760 S 60TH AVE         | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>12</b>  | 210-224 S 60TH AVENUE                | 210-224 S 60TH AVE     | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>13</b>  | 250-280 S 60TH AVENUE                | 250-280 S 60TH AVE     | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>14</b>  | WEST HOLLYWOOD BOWL                  | 460 S 60TH AVE         | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>15</b>  | 300-400 S 60TH AVENUE                | 300-400 S 60TH AVE     | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>16</b>  | 420-440 S 60TH AVENUE                | 420-440 S 60TH AVE     | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>17</b>  | 450 S 60TH AVENUE                    | 450 S 60TH AVE         | CHURCH/CEMETERY COMPLEX                  | INELIGIBLE FOR NRHP   |
| <b>18</b>  | THE PLACE FOR INSURANCE              | 1012-1014 S STATE 7 RD | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>19</b>  | NAUMI'S DRIVE-THRU DISCOUNT BEVERAGE | 1040 S STATE 7 RD      | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>20</b>  | CLASS MOTORS 1                       | 1304 S STATE RD        | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>21</b>  | AAA TOOL                             | 1450 S STATE 7 RD      | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>22</b>  | HOLLYWOOD AUTO MALL                  | 1800 S STATE 7 RD      | COMMERCIAL                               | INELIGIBLE FOR NRHP   |
| <b>23</b>  | 501 SW 61ST AVENUE                   | 501 SW 61ST AVE        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>24</b>  | 507 SW 61ST AVENUE                   | 507 SW 61ST AVE        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>25</b>  | VILLAGE COMMUNITY CENTER             | 6700 SW 13TH ST        | COMMUNITY CENTER (E.G., RECREATION HALL) | INELIGIBLE FOR NRHP   |
| <b>26</b>  | 6340 MADISON ST.                     | 6340 MADISON ST        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>27</b>  | 6330 MADISON ST                      | 6330 MADISON ST        | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>28</b>  | 420 SW 62 TERRACE                    | 420 SW 62 TERR         | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>29</b>  | 416 SW 62 TERRACE                    | 416 SW 62 TERR         | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>30</b>  | 412 SW 62 TERRACE                    | 412 SW 62 TERR         | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>31</b>  | 408 SW 62 TERRACE                    | 408 SW 62 TERR         | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>32</b>  | 404 SW 62 TERRACE                    | 404 SW 62 TERR         | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |
| <b>33</b>  | 400 SW 62 TERRACE                    | 400 SW 62 TERR         | PRIVATE RESIDENCE                        | INELIGIBLE FOR NRHP   |

| No. | Site Name            | Site Address        | Building Type                   | SHPO Status              |
|-----|----------------------|---------------------|---------------------------------|--------------------------|
| 34  | 6205 HOLLYWOOD BLVD. | 6205 HOLLYWOOD BLVD | COMMERCIAL                      | INELIGIBLE FOR NRHP      |
| 35  | 6217 TYLER ST.       | 6217 TYLER ST       | DUPLEX                          | INELIGIBLE FOR NRHP      |
| 36  | 6213 TYLER ST.       | 6213 TYLER ST       | PRIVATE RESIDENCE               | INELIGIBLE FOR NRHP      |
| 37  | 6205 TYLER ST.       | 6205 TYLER ST       | DUPLEX                          | INELIGIBLE FOR NRHP      |
| 38  | 6203 TYLER ST.       | 6203 TYLER ST       | DUPLEX                          | INELIGIBLE FOR NRHP      |
| 39  | 6201 TYLER ST        | 6201 TYLER ST       | PRIVATE RESIDENCE               | INELIGIBLE FOR NRHP      |
| 40  | 6220 POLK ST.        | 6220 POLK ST        | DUPLEX                          | INELIGIBLE FOR NRHP      |
| 41  | 6209 POLK ST         | 6209 POLK ST        | DUPLEX                          | INELIGIBLE FOR NRHP      |
| 42  | 6205 POLK ST.        | 6205 POLK ST        | APARTMENT                       | INELIGIBLE FOR NRHP      |
| 43  | 6201 POLK ST         | 6201 POLK ST        | DUPLEX                          | INELIGIBLE FOR NRHP      |
| 44  | 6220 TAYLOR ST       | 6220 TAYLOR ST      | PRIVATE RESIDENCE               | INELIGIBLE FOR NRHP      |
| 45  | 6200 TAYLOR ST       | 6200 TAYLOR ST      | PRIVATE RESIDENCE               | INELIGIBLE FOR NRHP      |
| 46  | MIRAMAR WATER TOWER  | 6950 MIRAMAR PKWY   | WATER TOWER OR SUPPLY STRUCTURE | INELIGIBLE FOR NRHP      |
| 47  | NORTH PERRY AIRPORT  | 7501 PEMBROKE RD    | OTHER                           | ELIGIBLE FOR NRHP        |
| 48  | RUNWAYS              | 7501 PEMBROKE RD    | AIRPORT                         | INSUFFICIENT INFORMATION |

Source: Florida Geographic Data Library (FGDL)

### 3.4 Population Characteristics and Densities

Executive Order (EO) 12898 (U.S., 1994) requires federal agencies to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority and low-income populations. In July 1997, the U.S. Department of Transportation (DOT) issued its Final order on environmental justice as Executive Order 5610.2 (updated in 2012). This order is specific to the DOT, outlining their commitment to environmental justice principles and defining a program specifically created to implement these principles department-wide – including the FAA.

Order 5610.2 defines a minority population as “any readily identifiable group of minority persons who live in geographic proximity who would be similarly affected by a proposed program, policy or activity.” The Council on Environmental Quality (CEQ) Environmental Justice Guidance under the National Environmental Policy Act (NEPA) state that minority or low-income populations should be identified where either: the minority or low-income population of the affected area exceed 50 percent; or the minority or low-income population percentage of the affected area is meaningfully greater than the minority or low-income population percentage in the general population.

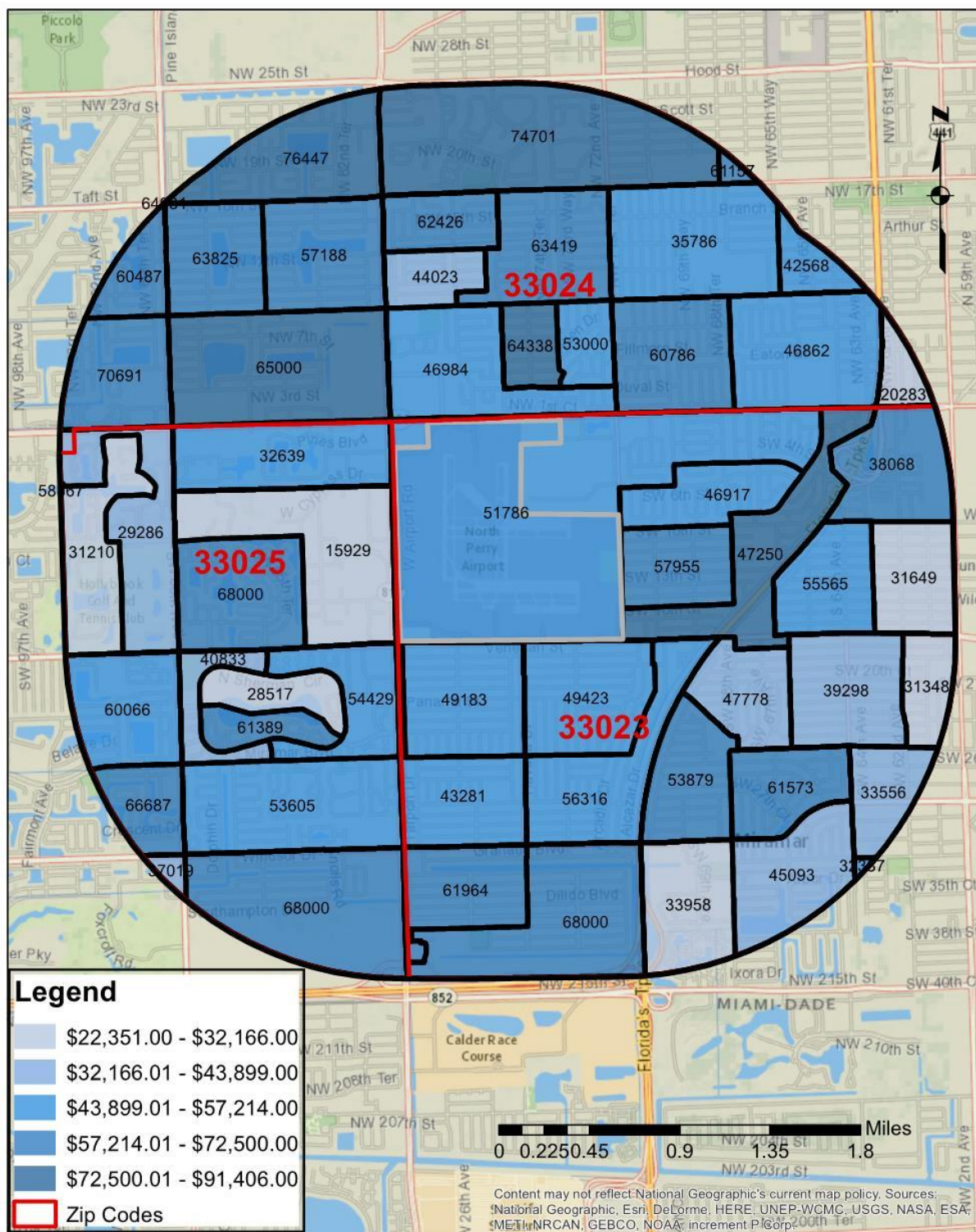
Using the U.S. Census Bureau American Fact Finder website, zip codes were used to evaluate population data. **Table 10** lists characteristics by zip codes compared to Broward County and the state of Florida. Median household income is shown by census tracts in **Figure 7** and minority population densities are shown in **Figure 8**.

There is a minority population greater than 50 percent in two of the three zip codes evaluated, and both numbers are higher than the percent minority reflected in Broward County. This information should be taken into consideration as ongoing development of the Airport could have the potential to disproportionately affect the minority demographic.

**Table 10 – Characteristics for Minority and Low-Income Populations**

| <b>Zip Code/Area</b>  | <b>Total Population (2010)</b> | <b>Percent Minority</b> | <b>Percent Families Below Poverty Level (2015 Estimate)</b> |
|-----------------------|--------------------------------|-------------------------|---|
| <b>Florida</b>        | 18,801,310                     | 22.5                    | 16.7  |
| <b>Broward County</b> | 1,748,066                      | 34                      | 14.6  |
| <b>33023</b>          | 65,576                         | 62.2                    | 17.4  |
| <b>33024</b>          | 63,916                         | 27.4                    | 14.3  |
| <b>33025</b>          | 59,039                         | 60.2                    | 11.7  |





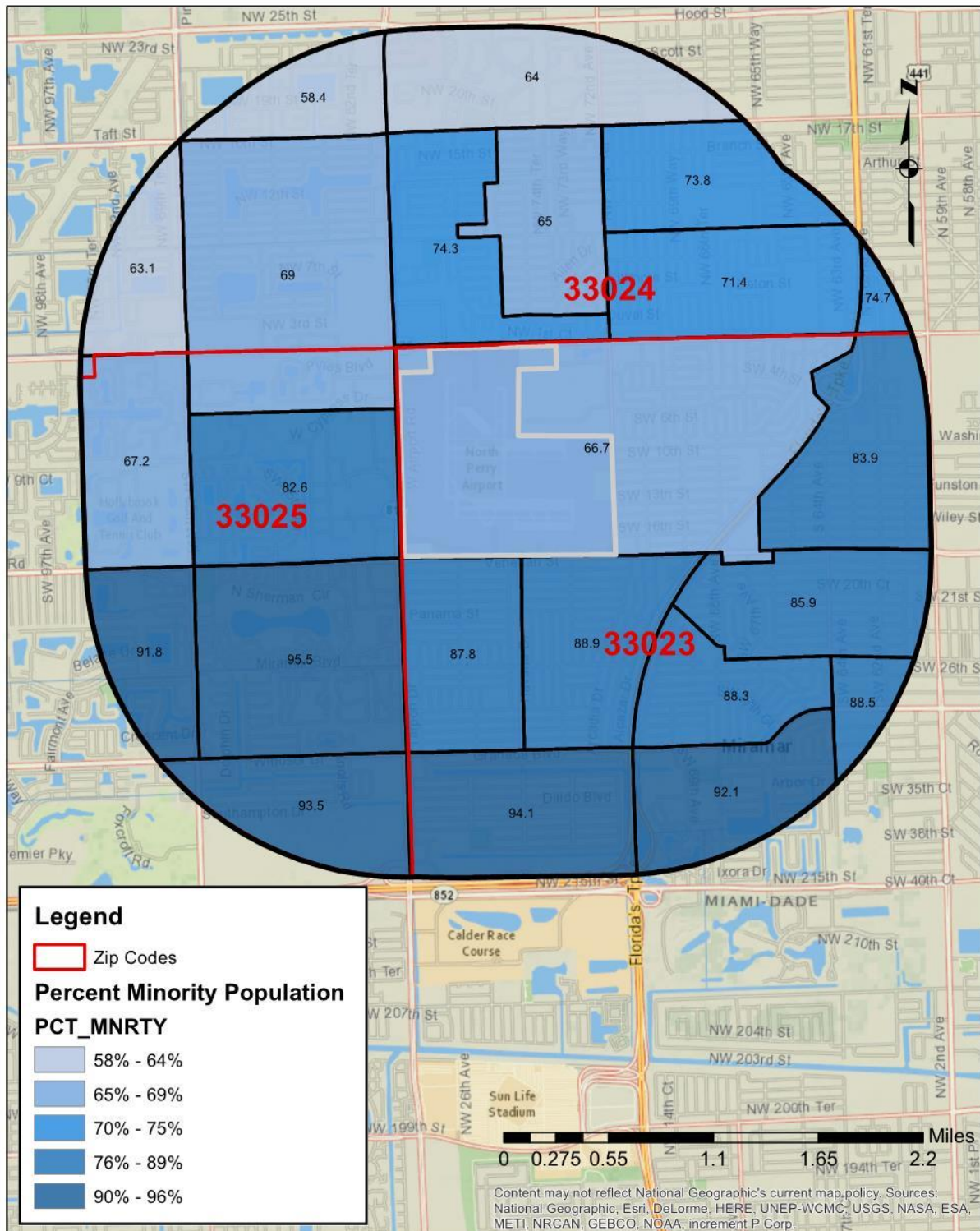


Figure 8 – Minority Population

**APPENDIX A**  
**FEMA Letter of Map Revision**





# Federal Emergency Management Agency

Washington, D.C. 20472

November 13, 2015

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:

Case No.: 15-04-4500P

The Honorable Frank C. Ortis  
Mayor, City of Pembroke Pines  
10100 Pines Boulevard  
Pembroke Pines, FL 33026

Community Name: City of Pembroke Pines, FL  
Community No.: 120053  
FIRM Panel Affected: 12011C0563 H,  
12011C0726 H

116

Dear Mayor Ortis:

In a Letter of Map Revision (LOMR) dated June 30, 2015, you were notified of proposed flood hazard determinations affecting the Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for the City of Pembroke Pines, Broward County, FL. These determinations were for South Broward Drainage District Canal No. 1 - Area centroid at approximately 4,200 feet southeast of Pines Boulevard and South University Drive. The 90-day appeal period that was initiated on July 15, 2015, when the Department of Homeland Security's Federal Emergency Management Agency (FEMA) published a notice of proposed Flood Hazard Determinations in *The Sun-Sentinel* has elapsed.

FEMA received no valid requests for changes to the modified flood hazard information. Therefore, the modified flood hazard information for your community that became effective on November 12, 2015, remains valid and revises the FIRM and FIS report that were in effect prior to that date.

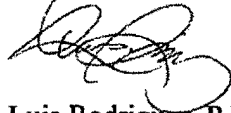
The modifications are pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. The community number(s) and suffix code(s) are unaffected by this revision. The community number and appropriate suffix code as shown above will be used by the National Flood Insurance Program (NFIP) for all flood insurance policies and renewals issued for your community.

FEMA has developed criteria for floodplain management as required under the above-mentioned Acts of 1968 and 1973. To continue participation in the NFIP, your community must use the modified flood hazard information to carry out the floodplain management regulations for the NFIP. The modified flood hazard information will also be used to calculate the appropriate flood insurance premium rates for all new buildings and their contents and for the second layer of insurance on existing buildings and their contents.

If you have any questions regarding the necessary floodplain management measures for your community or the NFIP in general, please contact the Mitigation Division Director, FEMA Region IV, in Atlanta, Georgia either by telephone at (770) 220-5200, or in writing at 3003 Chamblee Tucker Road, Atlanta, Georgia, 30341.

If you have any questions regarding the LOMR, the proposed flood hazard determinations, or mapping issues in general, please call the FEMA Map Information eXchange, toll free, at (877) 336-2627 (877-FEMA MAP).

Sincerely,



Luis Rodriguez, P.E., Chief  
Engineering Management Branch  
Federal Insurance and Mitigation Administration

cc: Mr. Karl Kennedy  
City Engineer  
City of Pembroke Pines

Mr. Chris Jackson, PE, LEED AP  
Project Manager, Senior Drainage Engineer  
RS&H, Inc.

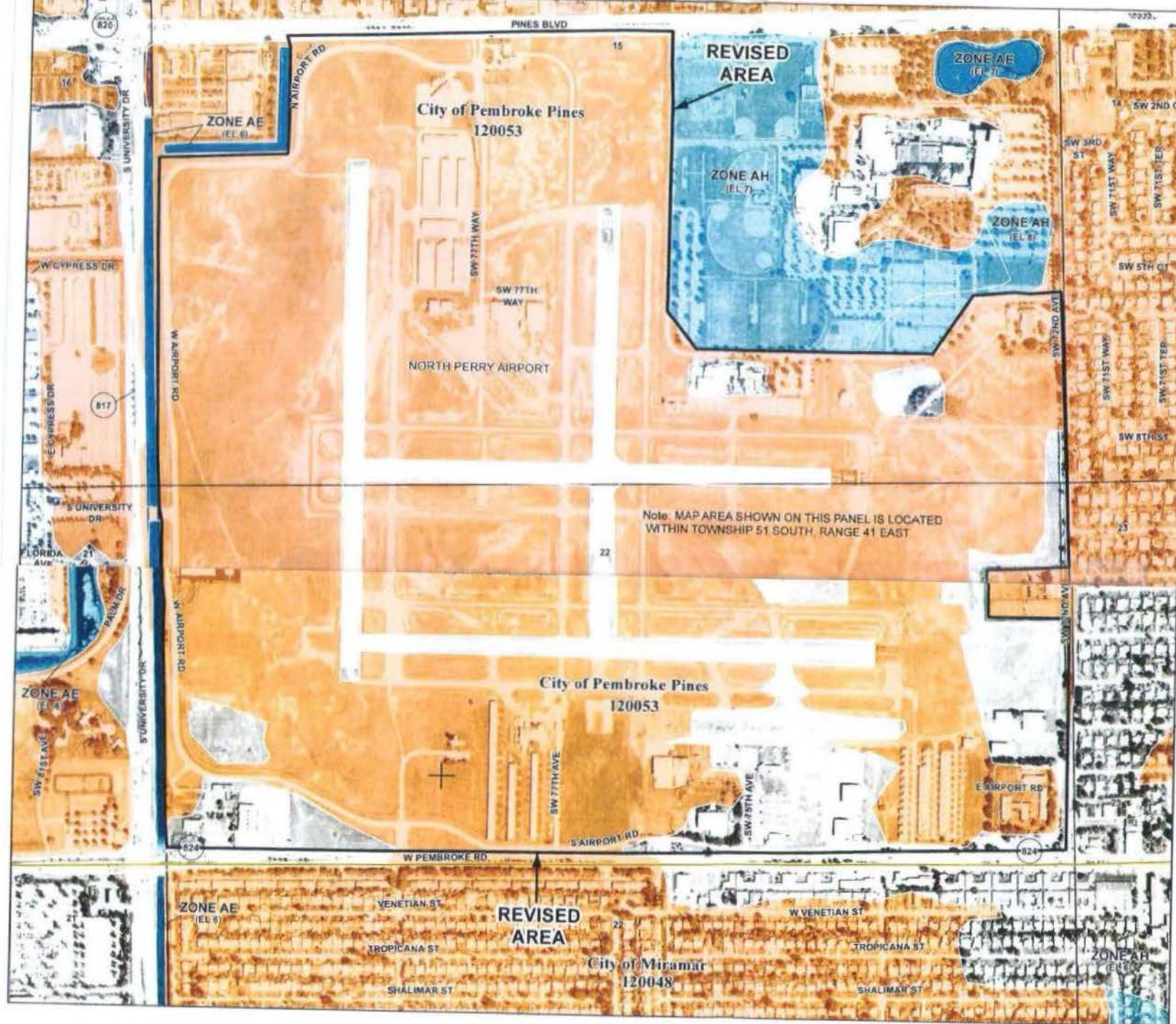
Mr. Carlos Hernandez  
Broward County Aviation Department



RECEIVED

2015 NOV 19 PM 4:05

AVIATION DEPARTMENT  
AIRPORT DEVELOPMENT



- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevations (BFE)**  
Zone A, A1, A99  
With BFE or Depth Zone AE, A1, A3, A9, A19, A99
  - Regulatory Floodway**  
0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
  - Future Conditions 1% Annual Chance Flood Hazard**
  - Area with Reduced Flood Risk due to Levees**  
See Notes, Figure 2
- OTHER AREAS OF FLOOD HAZARD**

**SCALE**

Map Projection:  
NAD 1983 North Carolina Plane  
Horizontal Datum: NAD 83  
Vertical Datum: MGS 85

1 inch = 500 feet

0 250 500 1,000 Feet

**SCALE**

Map Projection:  
NAD 1983 North Carolina Plane  
Horizontal Datum: NAD 83  
Vertical Datum: MGS 85

1 inch = 500 feet

0 250 500 1,000 Feet

**FEMA**  
National Flood Insurance Program

**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP  
BROWARD COUNTY, FLORIDA  
and Incorporated Areas  
PANEL 726 of 751

| COMMUNITY               | NUMBER | PANEL | SHEET |
|-------------------------|--------|-------|-------|
| MIRAMAR, CITY OF        | 120048 | 0726  | 01    |
| PEMBROKE PINES, CITY OF | 120053 | 0726  | 01    |

**REVISED TO REFLECT LOMR**  
**DATED: November 12, 2015**

VERSION NUMBER  
2.1.3  
MAP NUMBER  
12011C0726  
EFFECTIVE DATE  
AUGUST 18, 2015





# Federal Emergency Management Agency

Washington, D.C. 20472

June 30, 2015

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

The Honorable Frank C. Ortis  
Mayor, City of Pembroke Pines  
10100 Pines Boulevard  
Pembroke Pines, FL 33026

IN REPLY REFER TO:

Case No.: 15-04-4500P  
Community Name: City of Pembroke Pines, FL  
Community No.: 120053  
Effective Date of  
This Revision: **November 12, 2015**

Dear Mayor Ortis:

The Flood Insurance Rate Map for your community has been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed that provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any general questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP), please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Atlanta, Georgia, at (770) 220-5400, or the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our Web site at <http://www.fema.gov/nfip>.

Sincerely,

Luis Rodriguez, P.E., Chief  
Engineering Management Branch  
Federal Insurance and Mitigation Administration

List of Enclosures:

Letter of Map Revision Determination Document  
Annotated Flood Insurance Rate Map

cc: Mr. Karl Kennedy  
City Engineer  
City of Pembroke Pines

Mr. Chris Jackson, PE, LEED AP  
Project Manager, Senior Drainage Engineer  
RS&H, Inc.

Mr. Carlos Hernandez  
Broward County Aviation Department



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

| COMMUNITY AND REVISION INFORMATION   |   | PROJECT DESCRIPTION   | BASIS OF REQUEST  |
|--|---|---|---|
| <b>COMMUNITY</b>   | City of Pembroke Pines<br>Broward County<br>Florida | No Project  | HYDRAULIC ANALYSIS<br>HYDROLOGIC ANALYSIS<br>UPDATED TOPOGRAPHIC DATA |
|  | COMMUNITY NO.: 120053                               |   |   |
| <b>IDENTIFIER</b>  | North Perry Airport                                 | APPROXIMATE LATITUDE AND LONGITUDE: 26.000, -80.240<br>SOURCE: Precision Mapping Streets      DATUM: NAD 83 |   |
| ANNOTATED MAPPING ENCLOSURES   |   | ANNOTATED STUDY ENCLOSURES  |   |
| TYPE: FIRM*      NO.: 12011C0563 H      DATE: August 18, 2014<br>TYPE: FIRM*      NO.: 12011C0726 H      DATE: August 18, 2014 |   | NO REVISION TO THE FLOOD INSURANCE STUDY REPORT   |   |

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map

### FLOODING SOURCE AND REVISED REACH

South Broward Drainage District Canal No. 1 - Area centroid at approximately 4,200 feet southeast of Pines Boulevard and South University Drive

### SUMMARY OF REVISIONS

| Flooding Source                             | Effective Flooding | Revised Flooding | Increases | Decreases |
|---|--------------------|------------------|-----------|-----------|
| South Broward Drainage District Canal No. 1 | Zone AH            | Zone X (shaded)  | None      | YES       |

\* BFEs - Base Flood Elevations

### DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/nfip>.

Luis Rodriguez, P.E., Chief  
Engineering Management Branch  
Federal Insurance and Mitigation Administration



**Federal Emergency Management Agency**  
Washington, D.C. 20472

**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

**COMMUNITY INFORMATION**

**APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION**

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

**COMMUNITY REMINDERS**

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that any permits required by Federal or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/nfip>.

Luis Rodriguez, P.E., Chief  
Engineering Management Branch  
Federal Insurance and Mitigation Administration



**Federal Emergency Management Agency**  
Washington, D.C. 20472

**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Jesse Munoz  
Director, Mitigation Division  
Federal Emergency Management Agency, Region IV  
Koger Center - Rutgers Building, 3003 Chamblee Tucker Road  
Atlanta, GA 30341  
(770) 220-5400

**STATUS OF THE COMMUNITY NFIP MAPS**

We will not physically revise and republish the FIRM for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional information about the NFIP is available on our Web site at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "Luis Rodriguez".

Luis Rodriguez, P.E., Chief  
Engineering Management Branch  
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency  
Washington, D.C. 20472

**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

**PUBLIC NOTIFICATION OF REVISION**

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below and through FEMA's Flood Hazard Mapping Web site at [https://www.floodmaps.fema.gov/fhm/Scripts/bfe\\_main.asp](https://www.floodmaps.fema.gov/fhm/Scripts/bfe_main.asp).

LOCAL NEWSPAPER      Name: *The Sun-Sentinel*  
Dates: July 8, 2015 and July 15, 2015

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard information presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "Luis Rodriguez".

Luis Rodriguez, P.E., Chief  
Engineering Management Branch  
Federal Insurance and Mitigation Administration





**APPENDIX B**  
**NPDES Permit**





## Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

February 15, 2016

Michael P Pacitto  
Broward County  
2200 SW 45th St Ste 101  
Ft Lauderdale, FL 33312

RE: **Facility ID: FLR05A455-004**  
North Perry Airport  
County: Broward

Dear Permittee:

The Florida Department of Environmental Protection has received and processed your *Notice of Intent to Use Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity* (NOI) and the accompanying processing fee. This letter acknowledges that:

- your NOI is complete;
- your processing fee is paid-in-full; and
- you are covered under the *Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity* (MSGP).

Your facility identification number is **FLR05A455-004**. Please include this number on all future correspondence to the Department regarding this permit.

This letter is **not** your permit; however, it does serve as **verification of permit coverage**. A copy the sector-specific permit language is available online at **[www.dep.state.fl.us/water/stormwater/npdes/industrial5.htm](http://www.dep.state.fl.us/water/stormwater/npdes/industrial5.htm)** or by contacting the NPDES Stormwater Notices Center. Your facility falls under **Sector S** of the MSGP.

February 15, 2016

Your permit coverage becomes effective **2/11/2016** and will expire **2/10/2021**. To terminate coverage prior to this expiration date, you must file a *National Pollutant Discharge Elimination System (NPDES) Stormwater Notice of Termination*, DEP Form 62-621.300(6). To renew your coverage beyond the expiration date, you must submit a new NOI and processing fee to the Department no later than two days before coverage expires.

Until your permit coverage is terminated, modified, or revoked, you are authorized to discharge stormwater from your facility to surface waters in accordance with the terms and conditions of the MSGP. Three key conditions of the MSGP are:

- implementing your stormwater pollution prevention plan (SWPPP);
- retaining the records required by the permit (including your SWPPP) at your facility; and
- conducting your required monitoring.

#### **Required Monitoring:**

##### ***Analytical Monitoring***

Analytical samples of your stormwater discharge(s) must be collected and analyzed at least once each calendar quarter after a qualifying rain event during the periods of January through March, April through June, July through September, and October through December during years **two** and **four** of your permit cycle for the parameters specified in your Sector(s).

Analytical monitoring must be conducted in accordance with the following schedule:

- Year **two monitoring period** begins January 1, 2017 and ends December 31, 2017
- Year **four monitoring period** begins January 1, 2019 and ends December 31, 2019

The samples must be analyzed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). At the end of the monitoring year, you must average your quarterly Discharge Monitoring Report (DMR) results and record the quarterly average on an annual DMR form. If there is no stormwater discharged from your facility after a qualifying rain event during a calendar quarter, you must still complete and sign a DMR form for that quarter indicating "No Discharge" by checking the box at the top of the form.

Facility ID: FLR05A455-004

Page 3

February 15, 2016

***DMR Forms***

Quarterly and Annual DMR forms are attached to this acknowledgement letter. These forms also available online at: [www.dep.state.fl.us/water/stormwater/npdes/industrial6.htm](http://www.dep.state.fl.us/water/stormwater/npdes/industrial6.htm). You must complete the applicable forms and send them to the following address by March 31<sup>st</sup> of the year following your monitoring period or year. For example, analytical monitoring results for 2014 would be due no later than March 31, 2015.

NPDES Stormwater MSGP DMR, MS #2511  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

If you have any questions concerning this acknowledgment letter, please contact the NPDES Stormwater Notices Center at (866) 336-6312.

Sincerely,



Krishna P Baral  
Computer Operator II  
NPDES Stormwater Program





**APPENDIX C**  
**Zoning Codes by City**



**CITY OF PEMBROKE PINES ZONING CODES**

|       |                            |
|-------|----------------------------|
| A-1   | LIMITED AGRICULTURAL       |
| A-3   | AGRICULTURAL UTILITY       |
| A-5   | AGRICULTURAL EXCAVATION    |
| A-6   | AGRICULTURAL DISPOSAL      |
| B-1   | NEIGHBORHOOD BUSINESS      |
| B-2   | COMMUNITY BUSINESS         |
| B-2A  | PLANNED BUSINESS CENTER    |
| B-3   | GENERAL BUSINESS           |
| C-1   | COMMERCIAL                 |
| CF    | COMMUNITY FACILITIES       |
| E-1   | ESTATE                     |
| M-1   | LIGHT INDUSTRIAL           |
| M-2   | MEDIUM INDUSTRIAL          |
| M-3   | GENERAL INDUSTRIAL         |
| M-4   | LIMITED HEAVY INDUSTRIAL   |
| MXD   | MIXED USE DEVELOPMENT      |
| PCD   | (PCD) PLANNED COMMERCIAL D |
| PO-1  | PROFESSIONAL OFFICE        |
| PUD   | PLANNED UNIT DEVELOPMENT   |
| R1-A  | ONE FAMILY DWELLING        |
| R1-B  | ONE FAMILY DWELLING        |
| R1-C  | ONE FAMILY DWELLING        |
| R1-P  | ONE FAMILY DWELLING        |
| R-1T  | MOBILE HOME DWELLING       |
| R2-U  | TWO FAMILY DWELLING        |
| R-3   | LOW DENSITY MULTIPLE       |
| R-4   | APARTMENT                  |
| R-4A  | PLANNED APARTMENT          |
| R-6   | HOTEL                      |
| RS-7  | SINGLE FAMILY DISTRICT     |
| TH-12 | TOWNHOUSE DISTRICT         |

**CITY OF MIRAMAR ZONING CODES**

|      |                                  |
|------|----------------------------------|
| B-1  | NEIGHBORHOOD BUSINESS DISTRICT   |
| B-2  | COMMUNITY BUSINESS DISTRICT      |
| B-3  | HEAVY BUSINESS DISTRICT          |
| CF   | COMMUNITY FACILITIES DISTRICT    |
| CNS  | CONSERVATION DISTRICT            |
| CR   | COMMERCIAL RECREATION DISTRICT   |
| EC   | EMPLOYMENT CENTER                |
| EC   | ESTATE                           |
| M-1  | LIGHT INDUSTRIAL DISTRICT        |
| OP   | OFFICE PARK DISTRICT             |
| OS   | RECREATION / OPEN SPACE DISTRICT |
| PID  | PLANNED INDUSTRIAL DEVELOPMENT   |
| PUD  | PLANNED UNIT DEVELOPMENT         |
| R-1B | RESIDENTIAL                      |

RL RURAL DISTRICT  
RM-10 RESIDENTIAL 10 DISTRICT  
RM-16 RESIDENTIAL 16 DISTRICT  
RM-25 RESIDENTIAL 25 DISTRICT  
RS-1 RESIDENTIAL ESTATE DISTRICT  
RS-3 RESIDENTIAL 3 DISTRICT  
RS-4 RESIDENTIAL4 DISTRICT  
RS-5 RESIDENTIAL 5 DISTRICT  
RS-6 RESIDENTIAL 6 DISTRICT  
RS-7 RESIDENTIAL 7 DISTRICT  
TND TRADITIONAL NEIGHBORHOOD DEVELOPMENT  
U UTILITIES DISTRICT

#### **CITY OF HOLLYWOOD ZONING CODES**

AD LIMITED AGRICULTURAL DISTRICT  
BRT-25 BEACH RESORT TOURIST DISTRICT  
BRT-25-A1A-C BEACH RESORT A1A COMMERCIAL DISTRICT  
BRT-25-A1A-R BEACH RESORT A1A RESIDENTIAL DISTRICT  
BRT-25-C BEACH RESORT COMMERCIAL DISTRICT  
BRT-25-R BEACH RESORT RESIDENTIAL DISTRICT  
BWK-25-HD-C BROADWALK HISTORIC DISTRICT COMMERCIAL  
BWK-25-HD-R BROADWALK HISTORIC DISTRICT RESIDENTIAL  
C-1 LOW INTENSITY COMMERCIAL DISTRICT  
C-2 LOW/MEDIUM INTENSITY COMMERCIAL DISTRICT  
C-3 MEDIUM INTENSITY COMMERCIAL DISTRICT  
C-4 MEDIUM/HIGH INTENSITY COMMERCIAL DISTRICT  
C-5 HIGH INTENSITY COMMERCIAL DISTRICT  
CC COUNTRY CLUB DISTRICT  
CCC-1 CENTRAL CITY COMMERCIAL LOW INTENSITY  
CCC-2 CENTRAL CITY COMMERCIAL MIXED USE MEDIUM DENSITY  
CN-2 NEIGHBORHOOD COMMERCIAL MEDIUM INTENSITY  
CN-3 NEIGHBORHOOD COMMERCIAL HIGH INTENSITY  
GU GOVERNMENT USE DISTRICT  
HD HOSPITAL DISTRICT  
IM-1 LOW INTENSITY INDUSTRIAL AND MANUFACTURING DISTRICT  
IM-2 LOW/MEDIUM INTENSITY INDUSTRIAL AND MANUFACTURING DISTRICT  
IM-3 MEDIUM INTENSITY INDUSTRIAL AND MANUFACTURING DISTRICT  
NBDD-CZ NORTH BEACH DEVELOPMENT DISTRICT - COASTAL ZONE  
NBDD-DZ NORTH BEACH DEVELOPMENT - DEVELOPMENT ZONE  
ND-1 NORTH DOWNTOWN DISTRICT 1  
ND-2 NORTH DOWNTOWN DISTRICT 2  
O-1 LIGHT INTENSITY OFFICE DISTRICT  
O-2 MEDIUM INTENSITY OFFICE DISTRICT  
O-3 HIGH INTENSITY OFFICE DISTRICT  
OM MIXED USED OFFICE DISTRICT  
OS OPEN SPACE DISTRICT  
PD PLANNED DEVELOPMENT DISTRICT  
PEDD PORT EVERGLADES DEVELOPMENT DISTRICT

PUD PLANNED UNIT DEVELOPMENT DISTRICT  
PUD-R PLANNED UNIT DEVELOPMENT RESIDENTIAL DISTRICT  
RM-12 MULTIPLE FAMILY DISTRICT  
RM-18 MULTIPLE FAMILY DISTRICT  
RM-25 MULTIPLE FAMILY DISTRICT  
RM-9 MULTIPLE FAMILY DISTRICT  
RMCRA-12 LOW DENSITY MULTIPLE FAMILY (CRA)  
RMCRA-18 LOW/MEDIUM DENSITY MULTIPLE FAMILY (CRA)  
RMCRA-25 (CRA)  
RMCRA-36 MEDIUM DENSITY MULTIPLE FAMILY (CRA)  
RMCRA-54 MEDIUM/HIGH DENSITY MULTIPLE FAMILY (CRA)  
RMCRA-76 HIGH DENSITY MULTIPLE FAMILY (CRA)  
RMT CRA-27 TRANSITIONAL (CRA)  
RM-W MULTIPLE FAMILY RESIDENTIAL WETLANDS DISTRICT  
RS-1 SINGLE FAMILY DISTRICT  
RS-10 SINGLE FAMILY DISTRICT  
RS-2 SINGLE FAMILY DISTRICT  
RS-3 SINGLE FAMILY DISTRICT  
RS-4 SINGLE FAMILY DISTRICT  
RS-5 SINGLE FAMILY DISTRICT  
RS-6 SINGLE FAMILY DISTRICT  
RS-7 SINGLE FAMILY DISTRICT  
RS-8 SINGLE FAMILY DISTRICT  
RS-9 SINGLE FAMILY DISTRICT  
SCB-RM-25 SOUTH CENTRAL BEACH RESIDENTIAL MULTIPLE FAMILY DISTRICT  
SR7 CCD-CC COMMERCIAL CORRIDOR DISTRICT - COMMERCIAL CORE SUB-AREA  
SR7 CCD-LHC COMMERCIAL CORRIDOR DISTRICT - LOW HYBRID SUB-AREA  
SR7 CCD-LHSC COMMERCIAL CORRIDOR DISTRICT - LOW HYBRID COMMERCIAL SOUTH SUB-AREA  
SR7 CCD-MHC COMMERCIAL CORRIDOR DISTRICT - MODERATE HYBRID COMMERCIAL SUB-AREA  
SR7 CCD-RC COMMERCIAL CORRIDOR DISTRICT - RESORT COMMERCIAL SUB-AREA  
TD TRAILER PARK DISTRICT  
YC-B39 YOUNG CIRCLE DISTRICT B-39  
YC-B40 YOUNG CIRCLE DISTRICT B40  
YC-B42 YONG CIRCLE DISTRICT B42  
YC-B55 YOUNG CIRCLE DISTRICT B55  
YC-B57 YOUNG CIRCLE DISTRICT B57  
YC-B58 YOUNG CIRCLE DISTRICT B58





**APPENDIX D**  
**SHPO Letter**



## Maya Compton

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**From:** Thompson, Rachel E. <Rachel.Thompson@dos.myflorida.com>  
**Sent:** Thursday, August 25, 2016 11:47 AM  
**To:** Maya Compton  
**Subject:** RE: Verification of Site on Eligibility List  
**Attachments:** resource\_groups.xlsx; structures.xlsx; North Perry Airport.pdf; Letter.pdf



Maya,

Please find attached the letter, map, and rosters. One structure has been destroyed, but was eligible for NR designation. The other has insufficient data to determine if it is eligible for a National Register designation. The airport itself is listed as a resource group, which typically means historic roads or districts. Since the airport is over 50 years old and has connections to WW2 activities it is listed with FMSF as a historical resource.

Sincerely,

### **RACHEL THOMPSON**

Archaeological Data Analyst | Florida Master Site File | Bureau of Historic Preservation | Division of Historical Resources | Florida Department of State | 500 South Bronough Street | Tallahassee, Florida 32399 | 850.245.6367 | 1.800.847.7278 | Fax: 850.245.6439 | [flheritage.com](http://flheritage.com)



**This record search is for informational purposes only and does NOT constitute a project review. This search only identifies resources recorded at the Florida Master Site File and does NOT provide project approval from the Division of Historical Resources. Contact the Compliance and Review Section of the Division of Historical Resources at 850-245-6333 for project review information.**

August 25, 2016



Maya Compton-Grant  
Environmental Scientist  
Nova Consulting  
10486 NW 31st Terrace  
Doral, FL 33321  
Phone: (305) 436-9200 ext 245  
Email: mcompton@nova-consulting.com

In response to your inquiry of August 25, 2016, the Florida Master Site File lists two previously recorded standing structures and one resource group, at the following location in Broward County:

#### **North Perry Airport**

When interpreting the results of this search, please consider the following information:

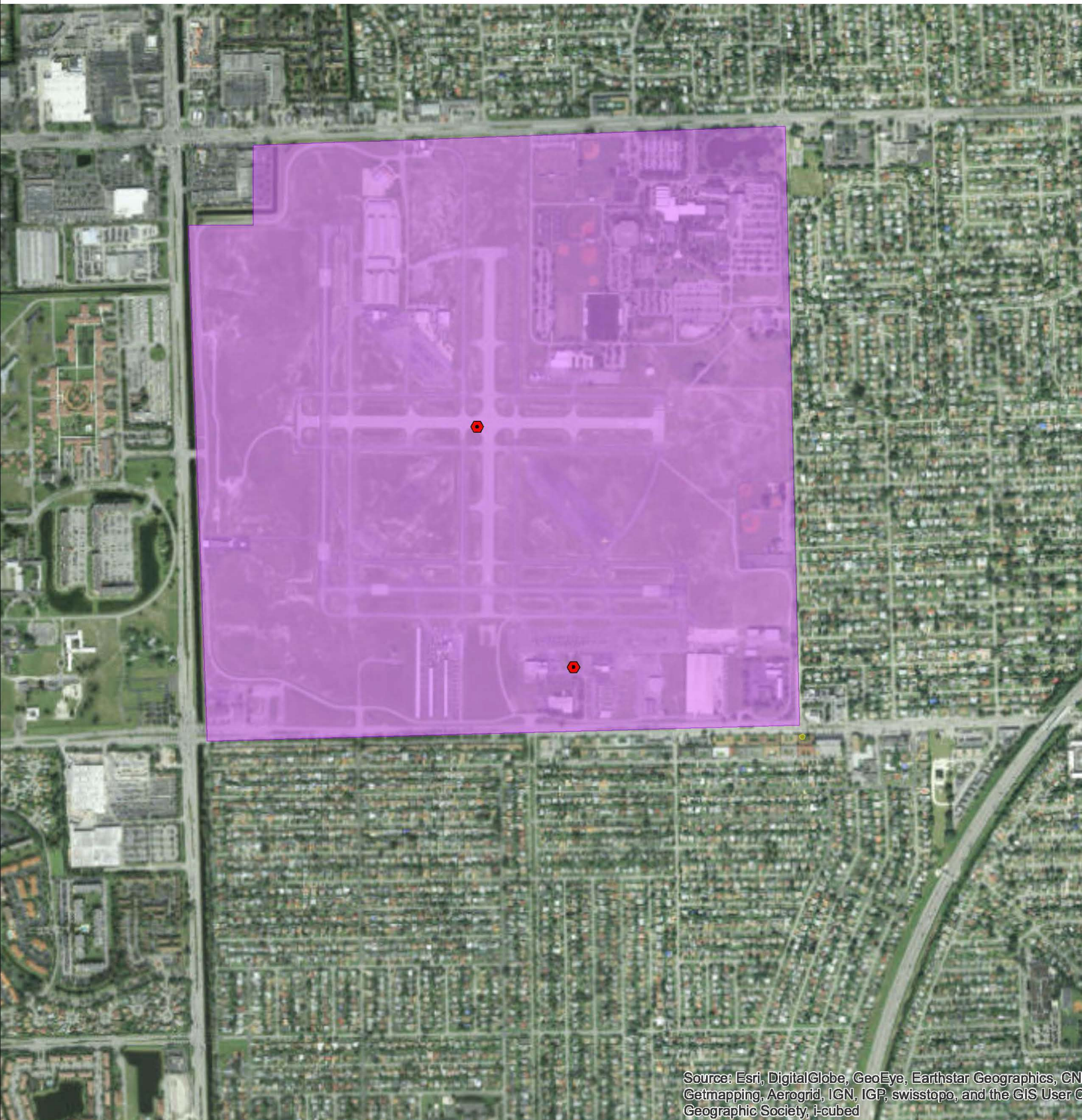
- **This search area may contain *unrecorded* archaeological sites, historical structures or other resources even if previously surveyed for cultural resources.**
- **Federal, state and local laws require formal environmental review for most projects. This search DOES NOT constitute such a review. If your project falls under these laws, you should contact the Compliance and Review Section of the Division of Historical Resources at 850-245-6333.**

Please do not hesitate to contact us if you have any questions regarding the results of this search.

Sincerely,

Rachel Thompson  
Archaeological Data Analyst  
Florida Master Site File  
Rachel.thompson@dos.myflorida.com





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNR  
Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User C  
Geographic Society, i-cubed



