



Wilmington International Airport

14 CFR Part 150
Noise Compatibility Study

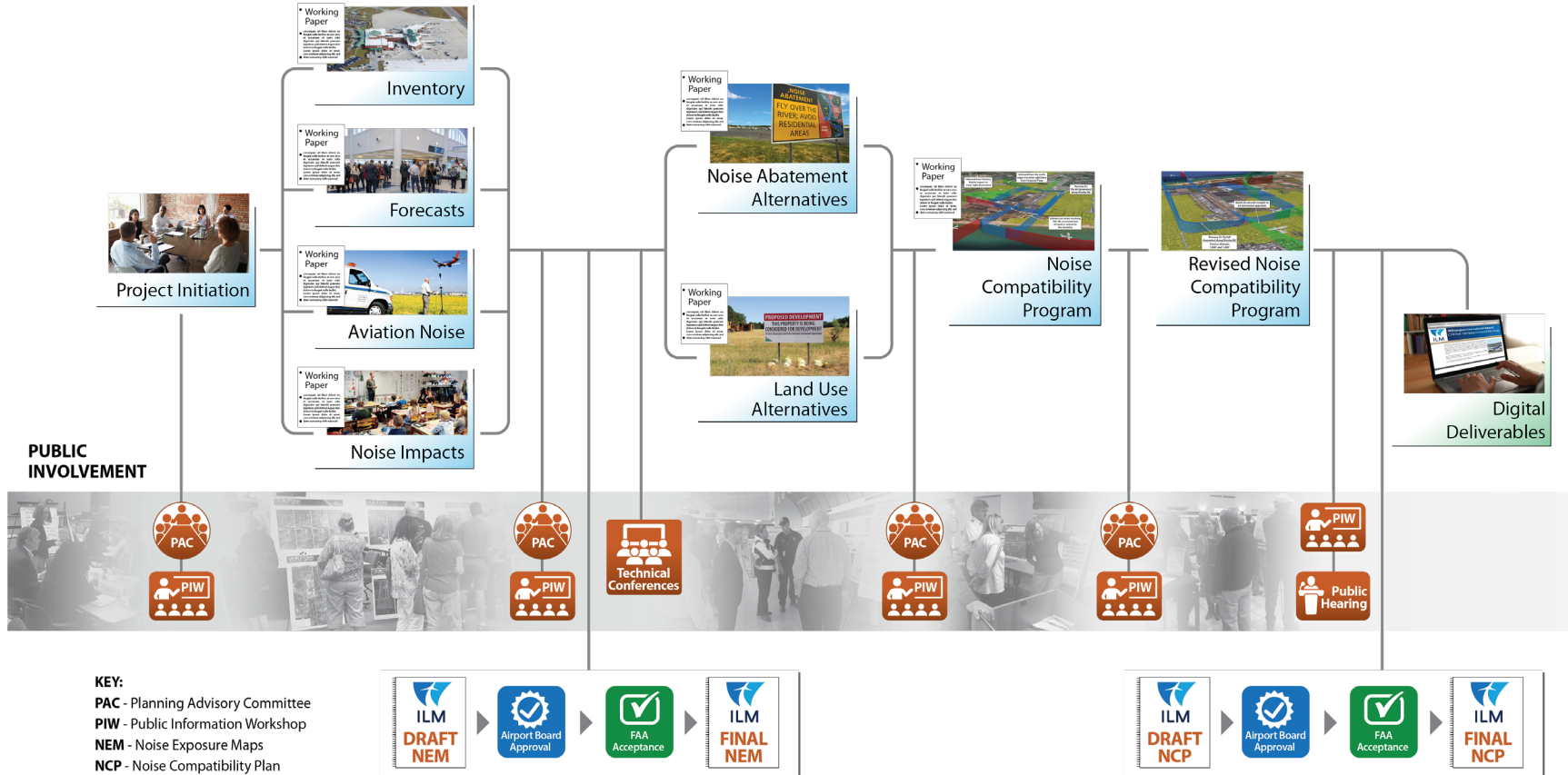


Agenda

1. Welcome and Introductions
 - Jeff Bourk, Wilmington International Airport
2. Study Process
 - Kory Lewis, Coffman Associates
3. Review of Noise Impacts
 - Madeline Holliman, Coffman Associates
4. Draft Noise Compatibility Program
 - Kory Lewis, Coffman Associates
5. Next Steps
 - Kory Lewis, Coffman Associates

Welcome and Introductions

Study Process



What is a Part 150 Study?

A Part 150 Study:

- Identifies the current and projected annualized aircraft noise levels at ILM using the Day Night Average Sound Level (DNL) noise metric.
- Identifies measures to reduce the noise impacts within the noise exposure contours from aircraft operating to and from Airport through changes in aircraft operations or airport facilities.
- Encourages future land uses which are compatible with aircraft noise, such as commercial or industrial in undeveloped areas.
- Determines methods to reduce the adverse impacts of noise above FAA thresholds in existing residential areas.
- Establishes a procedure to implement, review, and update the program.

A Part 150 Study does **not**:

- Evaluate aircraft operations from other area airports.
- Consider other types of impacts (air quality, accidents, etc.).
- Use noise metrics other than DNL to determine noise impacts.
- Provide justification for airport expansion.

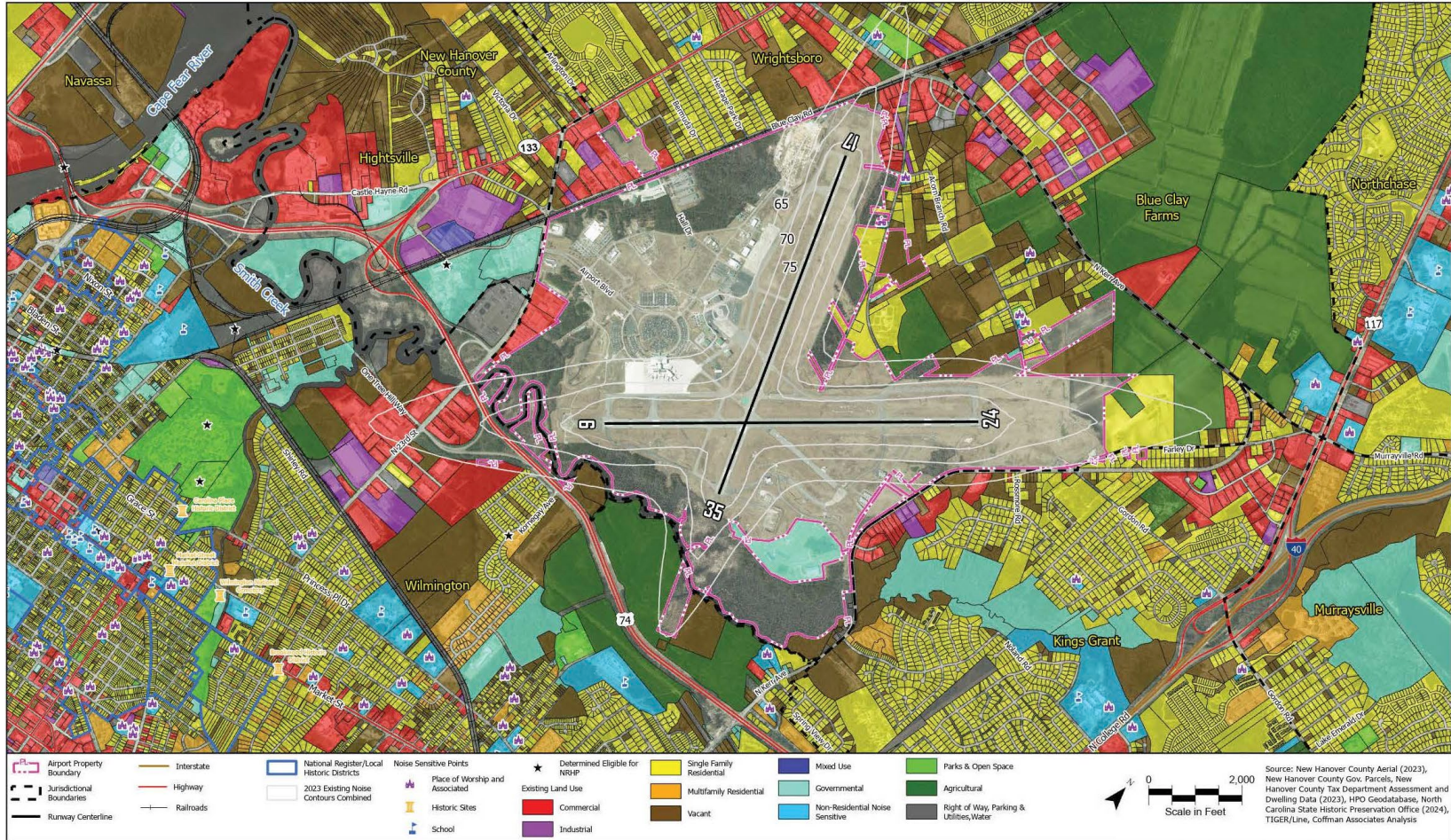
14 CFR Part 150 Noise Compatibility Guidelines

LAND USE		Yearly Day-Night Average Sound Level (DNL) in Decibels					
		Below 65	65-70	70-75	75-80	80-85	Over 85
Residential							
	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
Public Use							
	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
	Government 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
Commercial Use							
	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

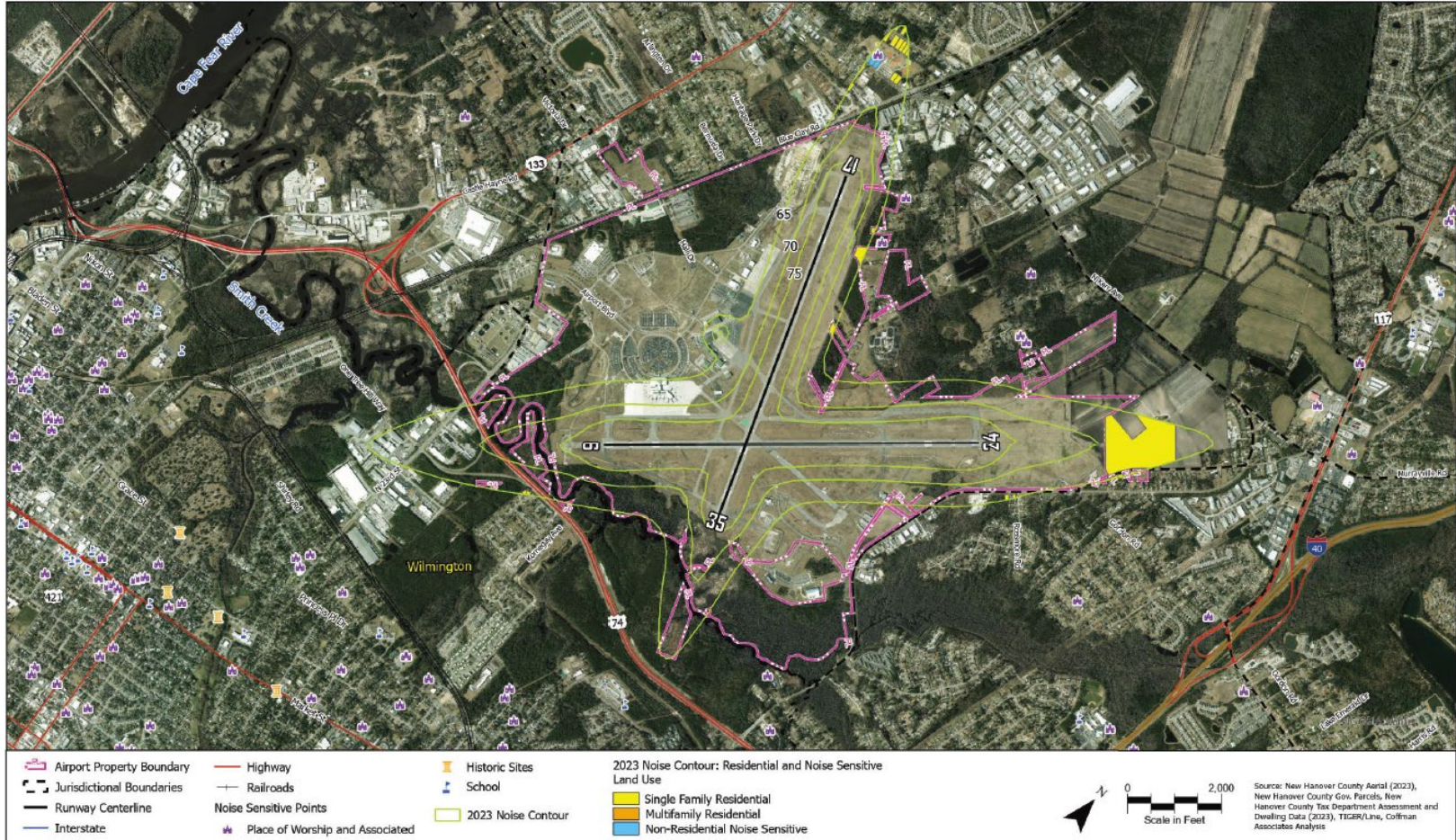
LAND USE		Yearly Day-Night Average Sound Level (DNL) in Decibels					
		Below 65	65-70	70-75	75-80	80-85	Over 85
Manufacturing and Production							
	Manufacturing, general	Y	Y	Y ²	Y ³	Y ⁴	N
	Photographic and optical	Y	Y	25	30	N	N
	Agriculture (except livestock) and forestry	Y	Y ⁶	Y ⁷	Y ⁸	Y ⁸	Y ⁸
	Livestock farming and breeding	Y	Y ⁶	Y ⁷	N	N	N
	Mining and fishing, resource production and extraction	Y	Y	Y	Y	Y	Y
Recreational							
	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

The designations contained in this table do not constitute a federal determination that any use of land covered by the program is acceptable under federal, state, or local law. The responsibility for determining the acceptable and permissible land uses and the relationship between specific properties and specific noise contours rests with the local authorities. FAA determinations under Part 150 are not intended to substitute federally-determined land uses for those determined to be appropriate by local authorities in response to locally-determined needs and values in achieving noise compatible land uses.

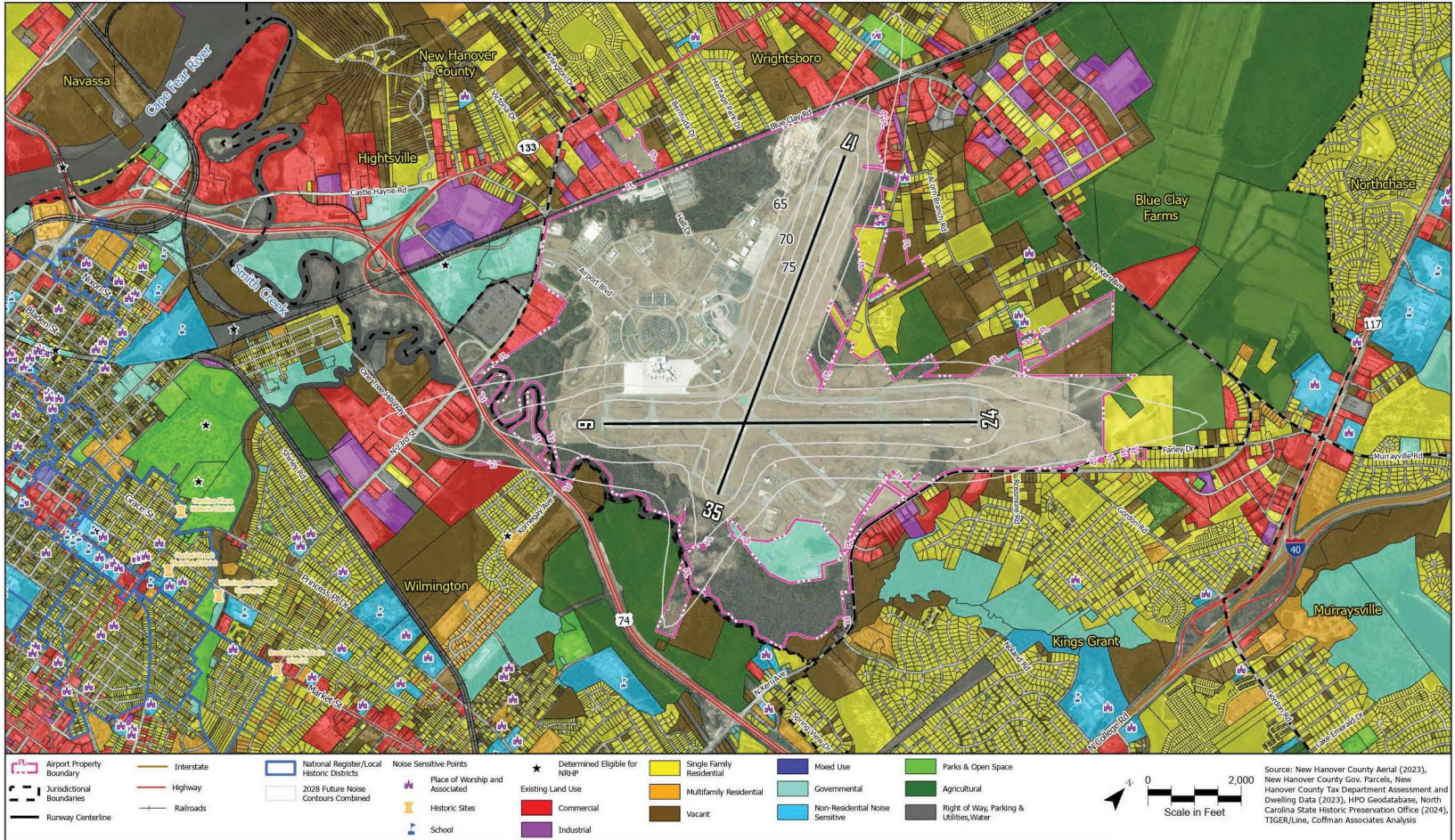
2023 Noise Contours



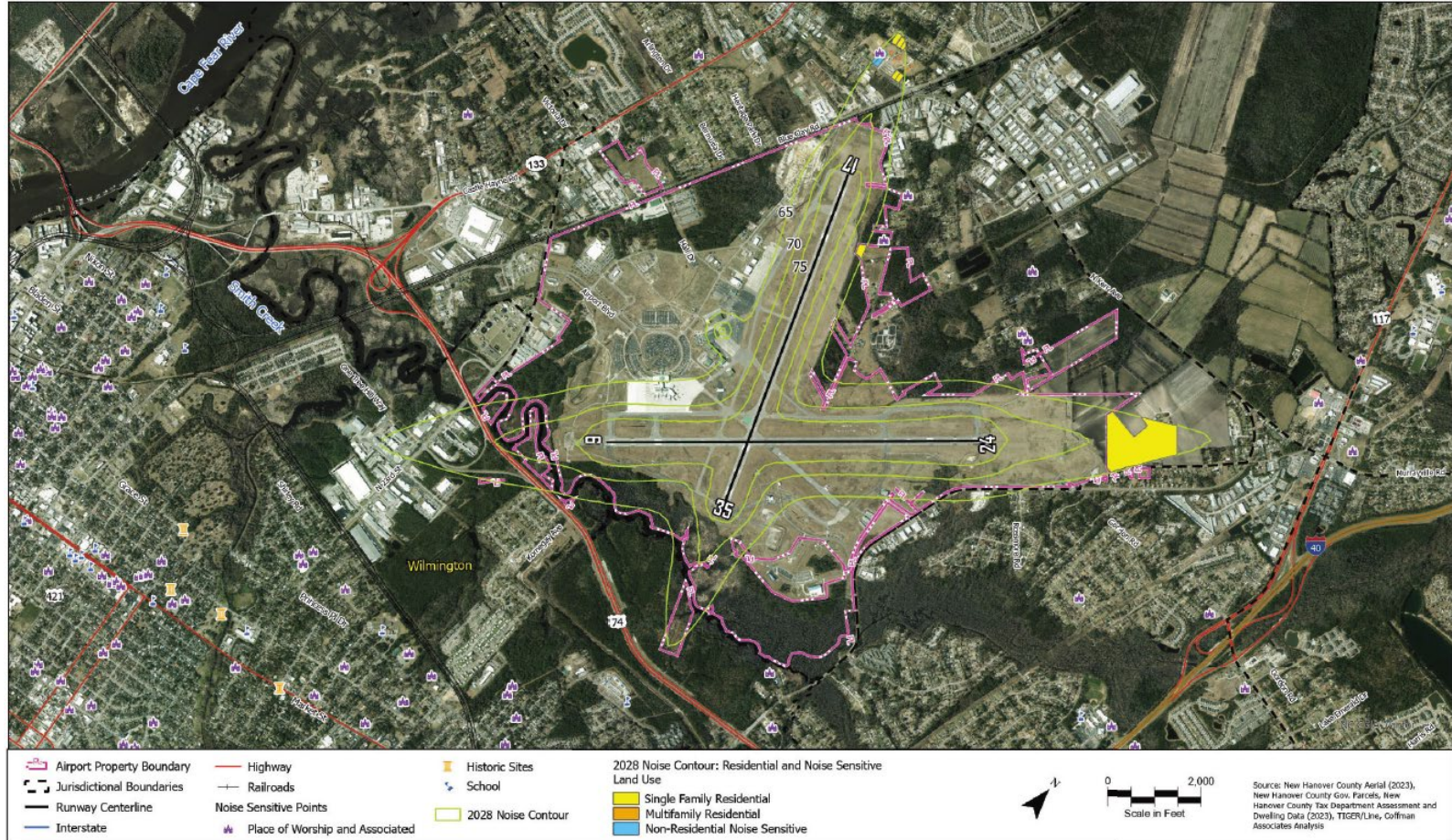
2023 Noise Impacts



2028 Noise Contours



2028 Noise Impacts



Summary of Noise Impacts

TABLE 4J | ILM Noise-Sensitive Land Use Impact Summary

	65-70 DNL	70-75 DNL	75+ DNL
Noise-Sensitive Parcels/Dwelling Units (d.u.)			
Existing (2023)	46.96 acres/14 d.u.	–	–
Future (2028)	37.14 acres/2 d.u.	–	–
Estimated Population			
Existing (2023)	31 people	–	–
Future (2028)	5 people	–	–
Growth Risk for Noise-Sensitive Land Uses			
Single-Family Residential	22.47 acres	0.82 acres	–
Manufactured Housing	13.81 acres	–	–
Places of Worship	22.47 acres	0.82 acres	–
Hospitals	7.49 acres	0.82 acres	–
Schools	1.17 acres	–	–

Sources: New Hanover County Tax Department (2024); Coffman Associates analysis

Table 7B – 14 CFR Part 150 Measures

TABLE 7B Summary of Noise Compatibility Program Measures for Review Under 14 CFR Part 150					
Measure	Cost to Airport or Government	Direct Cost to Users	Timing	Lead Responsibility	Potential Funding Sources
LAND USE MANAGEMENT ELEMENT					
1. Amend comprehensive plans to amend comprehensive plan maps to establish an aviation noise threshold for land use compatibility.	Administrative	None	2036	City of Wilmington and New Hanover County	City and county operating budgets
2. Adopt formal project review guidelines that address noise compatibility issues.	Administrative	None	2028	City of Wilmington and New Hanover County	City and county operating budgets
3. Implement a fair disclosure policy for residential property within the 65 DNL noise contours.	Administrative and Legal	None	2028	City of Wilmington and New Hanover County	City and county operating budgets
NOISE MITIGATION ELEMENT					
1. Offer to provide sound insulation for the 14 dwelling units located in the program area on a voluntary basis.	\$960,000	None	2028	New Hanover County Airport Authority	FAA, New Hanover County Airport Authority
2. Offer to purchase avigation easements for the 14 dwelling units located in the program area on a voluntary basis.	\$70,000	None	2028	New Hanover County Airport Authority	FAA, New Hanover County Airport Authority
PROGRAM MANAGEMENT ELEMENT					
1. Update the airport's noise exposure maps and Noise Compatibility Program.	\$600,000	None	2036	New Hanover County Airport Authority	FAA, New Hanover County Airport Authority
2. Monitor implementation of the Part 150 Noise Compatibility Program.	Administrative	None	Ongoing	New Hanover County Airport Authority	New Hanover County Airport Authority Operating Budget
Total Cost and Funding Source					
Funding Source				Amount	Percent of Project
FAA				\$1,467,000	90.0%
New Hanover County Airport Authority Budget				\$163,000	10.0%
Total Cost:				\$1,630,000	100.0%

Potential Program Area

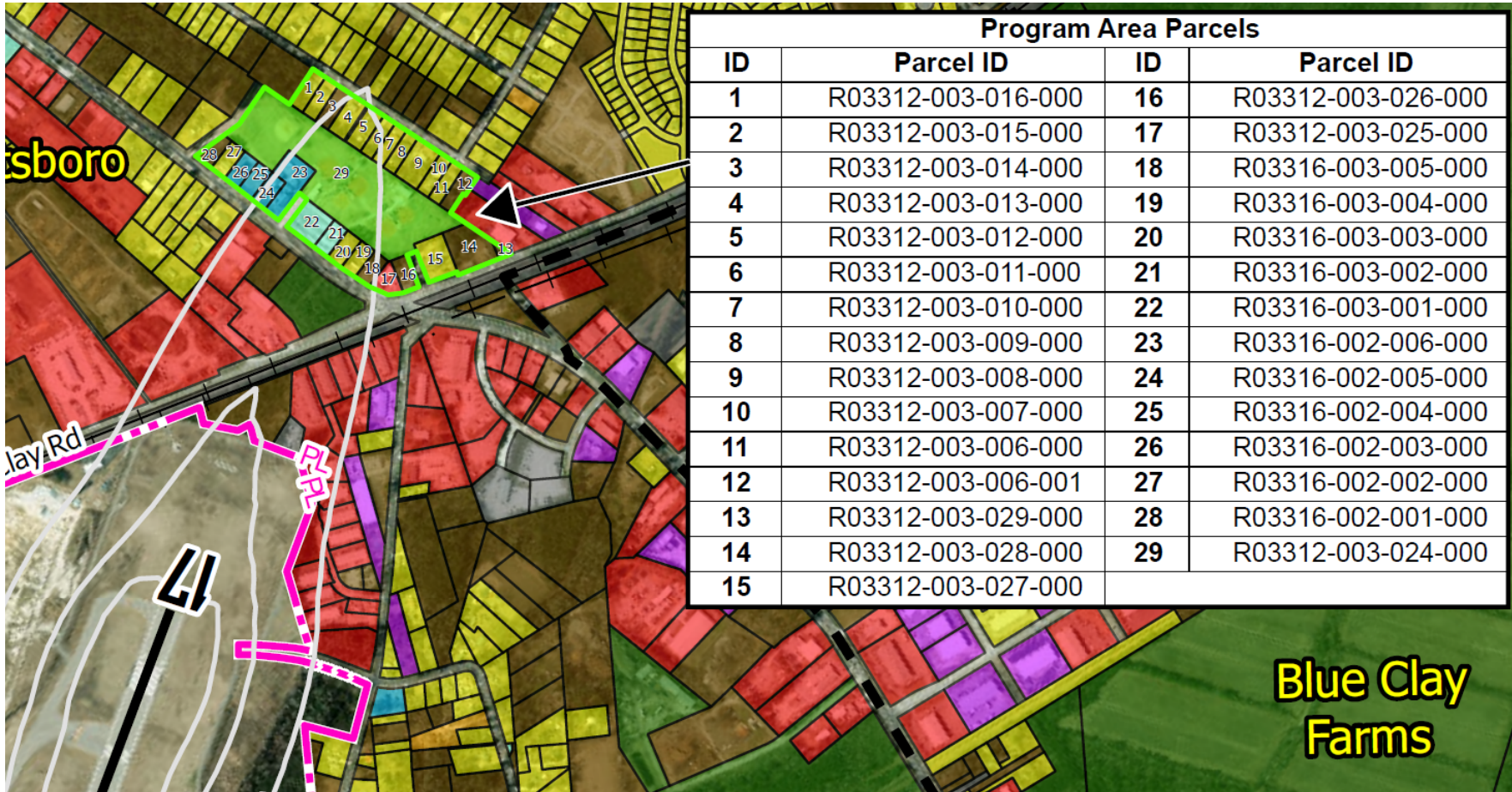


Table 7C – Local Measures

TABLE 7C | Summary of Local Noise Compatibility Measures Not Submitted for Review Under 14 CFR Part 150

Measure	Cost to Airport or Government	Direct Cost to Users	Timing	Lead Responsibility
LOCAL NOISE COMPATIBILITY MEASURES				
1. Evaluate departures to avoid Historic Downtown Wilmington.	\$100,000	None	2028	New Hanover County Airport Authority
2. Evaluate an alternative visual approach to Runway 24 over the Cape Fear River.	\$50,000	None	2028	New Hanover County Airport Authority
3. Continue noise abatement procedures as agreed upon with 2 nd MAW, USMC.	Administrative	None	Ongoing	FAA
Funding Source			Total Cost	Percent Funding
New Hanover County Airport Authority			\$150,000	100.0%

Next Steps

- ▶ Collect feedback and revise Noise Compatibility Program
- ▶ Public hearing on revised Noise Compatibility Program
- ▶ Submit Noise Compatibility Program document to New Hanover County Airport Authority and FAA for approval
- ▶ Public Hearing in Q4 2026



Public Involvement



ilmpart150.airportstudy.net



Community members are invited to attend a Public Information Workshop regarding the ongoing Part 150 Noise Study:

Wednesday, August 12, 2026

Presentation - 5:00 PM in the Snipes Academy Auditorium
Workshop - 5:30 PM - 6:30 PM at Snipes Academy Gymnasium

2150 Chestnut Street
Wilmington, NC 28405

The public workshop is an open house format, so attendees can drop in at their convenience. Your input and participation matter!

Why attend?

- Learn more about the noise study and the process
- View information boards on display in the meeting room
- Ask questions, participate, and provide feedback

For more information, please contact:
Kory Lewis - Project Manager
Coffman Associates, Inc.
klewis@coffmanassociates.com
816-524-3500

Learn more or submit a comment:

ILMPART150.AIRPORTSTUDY.NET

Thank You!