

**L.G. Hanscom Field  
2022 Environmental Status and Planning Report (ESPR)**

**MEPA Scoping Meeting**

11-28-22

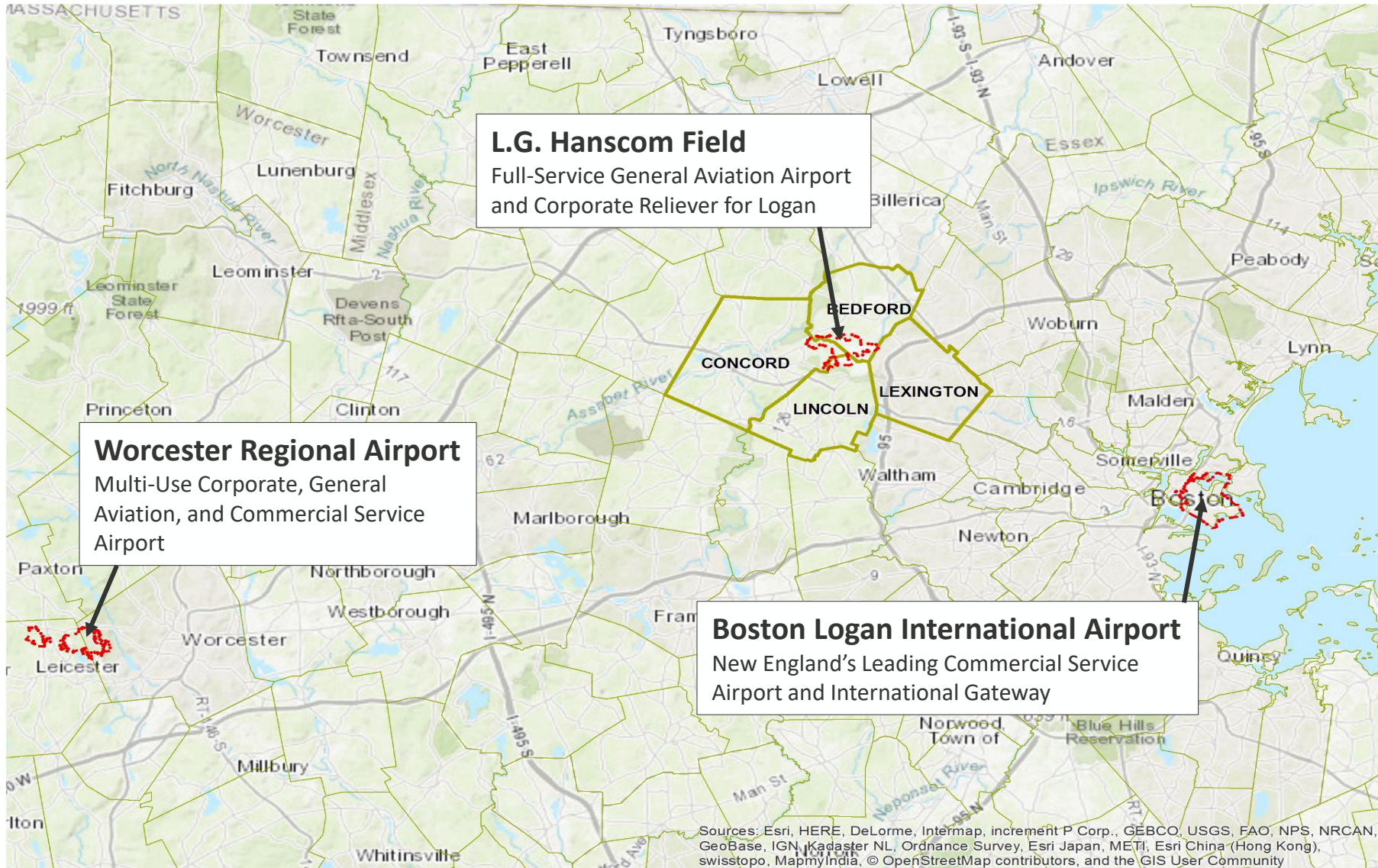


# Hanscom Field 2022 ESPR Scoping Meeting

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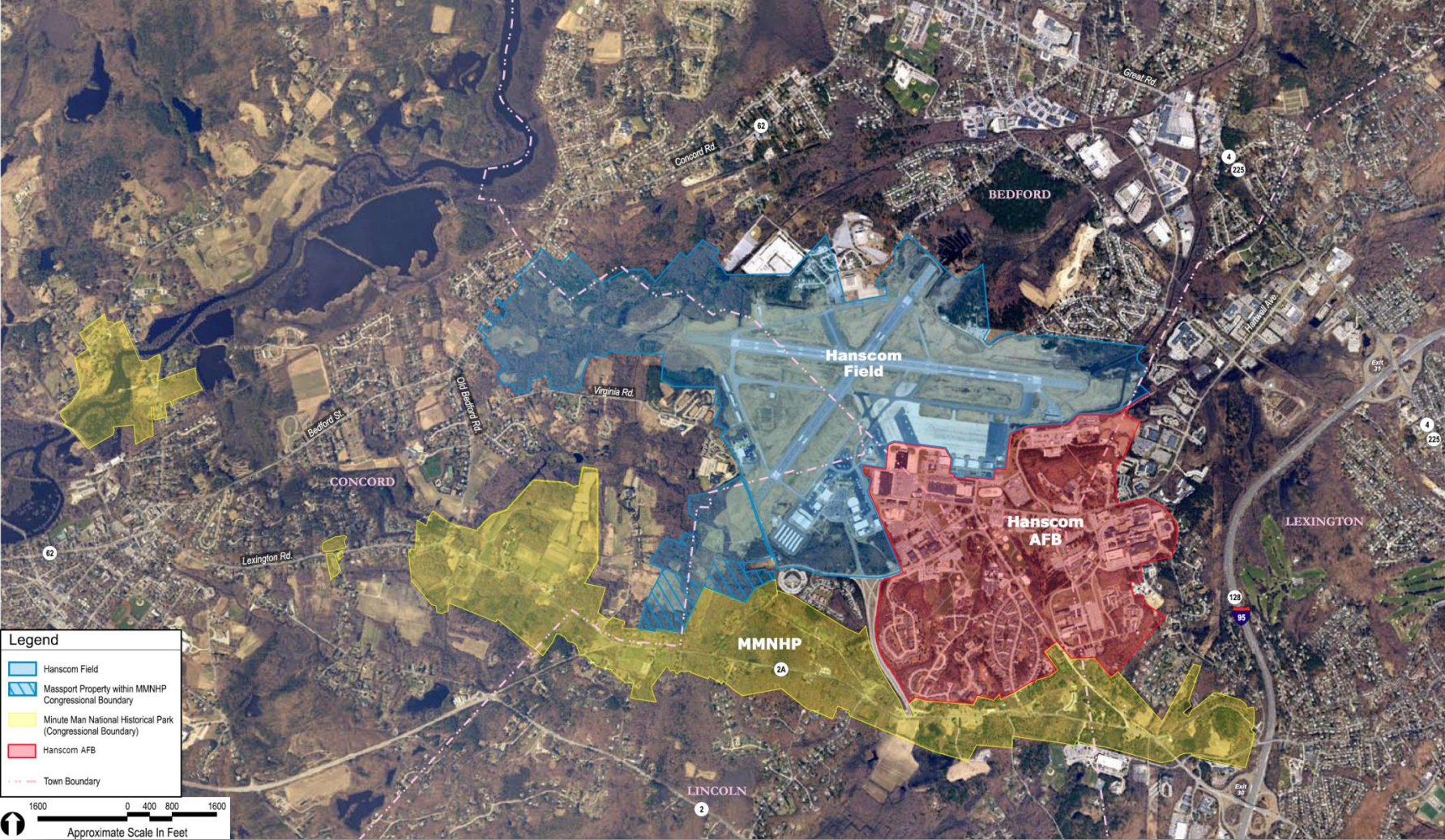
- **Welcome/Introductions** Amber Goodspeed
- **ESPR Process/Context** Stewart Dalzell
- **Proposed 2022 ESPR Scope** Brad Washburn
- **2022 ESPR Schedule** Brad Washburn
- **Questions/Discussion**

# Massport operates Logan Airport, Hanscom Field, and Worcester Regional Airport



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

# Hanscom Field Location



# Hanscom Field is New England's Premiere Corporate Aviation Airport

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- Region's premier full-service general aviation airport
- Plays a critical role in New England's regional aviation system as a corporate reliever for Logan International Airport.
- Operations at Hanscom have traditionally included a mix of commuter, business, charter, light cargo, personal aircraft, air taxi, medical, military and flight school activity
- Serves the diverse flying needs of the region's high technology corporations and educational institutions
- Important resource for Hanscom Air Force Base (HAFB), a research and development facility abutting the airfield

# Hanscom Field's Infrastructure Supports Local Economy



## ESPR Process & Context

# Hanscom Field Planning & Regulatory Context

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## **1978 Hanscom Field Master Plan**

- Recognizes cargo & commercial aviation at Hanscom Field
- Estimates for efficient & safe operational capacity

## **1980 General Rules and Regulations for L.G. Hanscom Field**

- Seat limitation for commercial passenger services
- Nighttime field use fees for 11 p.m. to 7 a.m. arrivals & departures
- Touch & Go (pilot training) limitations
- Phase out of noisiest aircraft

## **Federal Legislation 2012 FAA Modernization and Reform Act**

- The phase out of all non-stage 3 (loudest) aircraft by December 31, 2015
- Removes noisiest civilian aircraft, therefore reducing noise exposure to the community

## **The Environmental Status & Planning Report (ESPR)**

- Serves as a valuable planning tool for Hanscom Field and HATS communities
- Presents comprehensive environmental evaluation of cumulative effects of current and possible future development impacts at Hanscom Field



# ESPR: What It Is & How It Is Used

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- Provides data and analyses on:
  - airport facilities/activity levels / planning
  - aircraft noise
  - ground transportation
  - air quality
  - wetlands, wildlife, water quality
  - cultural and historical resources
  - sustainability
- Required by MA Secretary of the Executive Office of Energy & Environmental Affairs since 1985
- Prepared every five years to evaluate cumulative effect of growth and change at Hanscom Field

## ESPR: What It Is & How It Is Used (continued)

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- The original GEIR, the 1995 GEIR Update, the 2000 ESPR, the 2005 ESPR, the 2012 ESPR the 2017 ESPR and now the 2022 ESPR provide a retrospective analysis of the environmental effects of Hanscom Field while including analyses for future forecasts
- The 2022 ESPR will present an overview of the operational environment and planning status of Hanscom Field and will provide long-range projections of environmental conditions against which the effects of future individual projects can be compared
- ESPRs allow the reader to see historical environmental information, current information, and a forecast of future environmental effects at Hanscom Field
- ESPRs do not replace the requirement for filing an Environmental Notification Form (ENF) for a specific project if that project meets or exceeds a MEPA regulation threshold

# Hanscom Field ESPR Planning Framework

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- Hanscom Field 1978 Master Plan and 1980 Noise Rules & Regulations
  - Commercial passenger aircraft limited to no more than 60 seats
  - Nighttime field use fee to help discourage activity between 11 pm and 7 am
- Aviation Activities at Hanscom Field include:
  - Corporate aviation
  - Recreational flying
  - Pilot training
  - Air charter
  - Cargo (does not include commercial cargo carriers)
  - Commercial service (within the Noise Rules)
  - Military flights

# Hanscom Field ESPR/GEIR History

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*Prepared approximately every 5 years to evaluate the **cumulative effect of growth and change at Hanscom Field** and analyses on noise, ground transportation, air quality, water quality, and cultural and historic resources.*

<b>1985</b>	First Generic Environmental Impact Report (GEIR)
<b>1995</b>	GEIR Update
<b>2000</b>	Environmental Status and Planning Report (ESPR)
<b>2005</b>	Environmental Status and Planning Report (ESPR)
<b>2012</b>	Environmental Status and Planning Report (ESPR)
<b>2017</b>	Environmental Status and Planning Report (ESPR)
<b>2022</b>	<b><i>ESPR to be published late 2023</i></b>

## Proposed ESPR Scope

## 2022 Hanscom Field ESPR Technical Team

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Firm	Technical Specialty
<b>HMMH</b>	Lead consultant ( <i>prepared 2017 ESPR</i> ) Noise Air Quality GIS Mapping Sustainability and Environmental Management
<b>McFarland Johnson</b>	Facilities and Infrastructure Airport Activity Levels Airport Planning Regional Transportation Context Ground Transportation Wetlands, Wildlife, and Water Resources
<b>Public Archeology Laboratory (PAL)</b>	Cultural and Historical Resources

## 2022 Hanscom Field ESPR Proposed Scope

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- Prospective analysis using 2022 as the base year and 2030 and 2040 as the forecast years
- Historical information for comparison & trend analysis
- Analysis of current and future operating conditions
- Overview of capital planning and the 2030-2040 forecast horizons
- Evaluation of potential environmental effects

# Technical Chapter Organization and Supporting Appendices

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## Technical Chapters:

1. Introduction
2. Facilities and Infrastructure
3. Airport Activity Levels
4. Airport Planning
5. Regional Transportation Context
6. Ground Transportation
7. Noise
8. Air Quality
9. Wetlands/Wildlife/Water Resources
10. Cultural & Historical Resources, and Environmental Justice

11. Sustainable Development and Environmental Management, and Environmentally Beneficial Measures

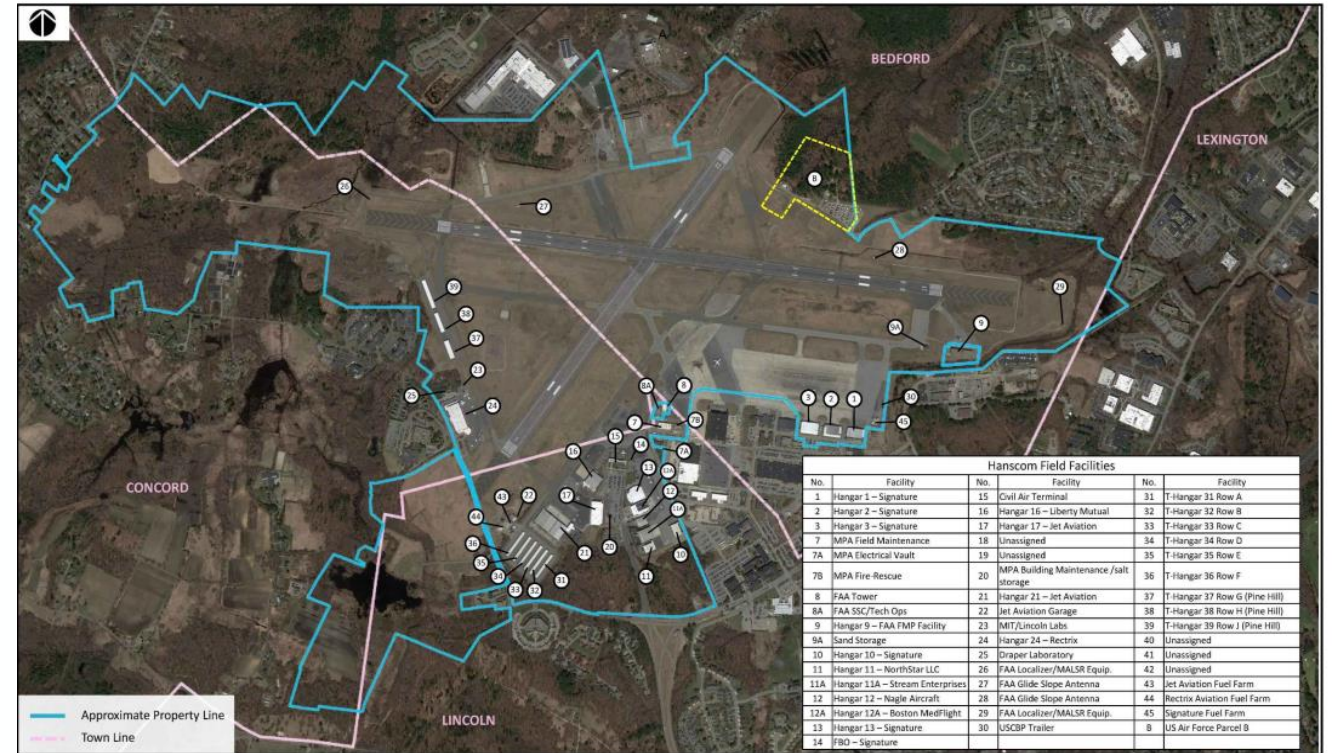
## Appendices:

- MEPA Documentation
- Response to Comments
- MEPA Reviewers
- Other Tech. Appendices



# 2022 ESPR Proposed Scope: Facilities & Infrastructure

- The chapter on facilities and infrastructure will update information presented in the 2017 ESPR regarding the airfield and its supporting infrastructure



# 2022 ESPR Proposed Scope: Aircraft Activity Levels

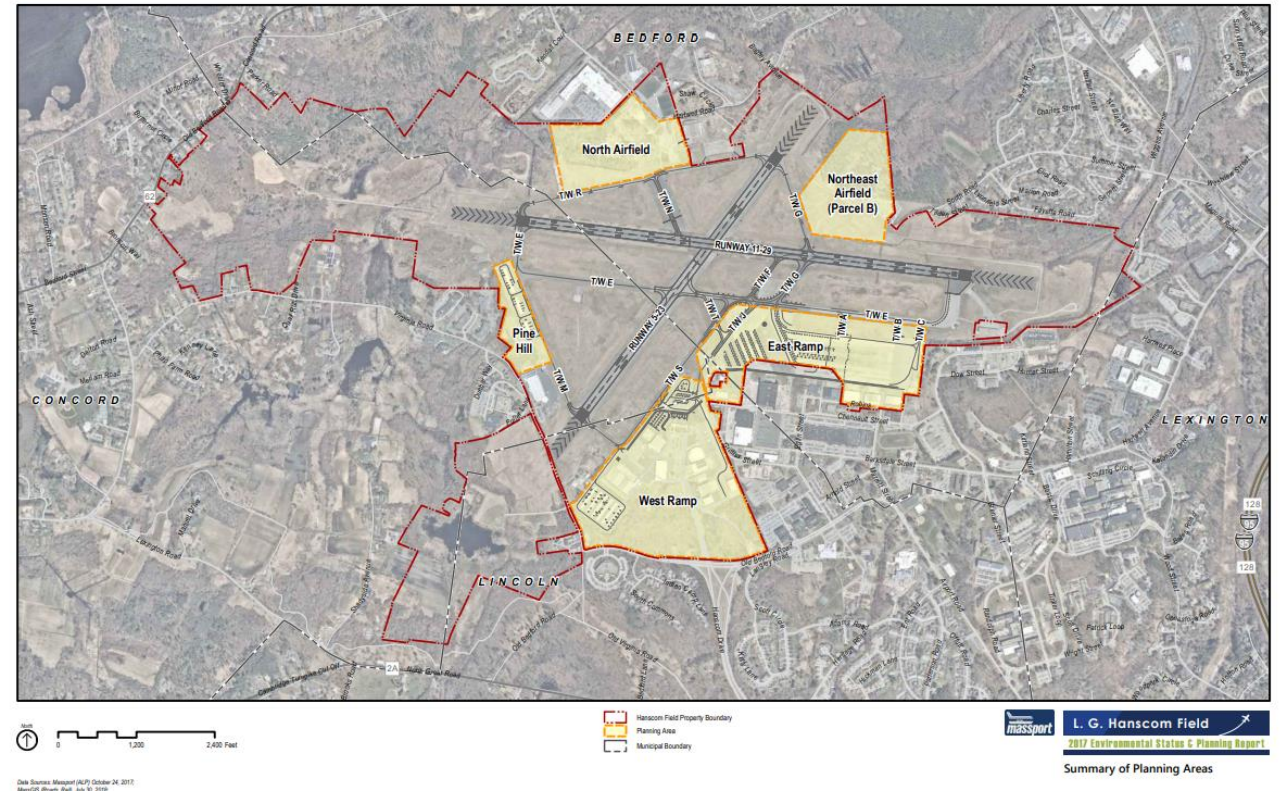
- The chapter on airport activity levels will report on activity levels for 2017 to 2022
- It will also describe the new forecasts for activity levels for 2030 and 2040

Table 3-1 Summary of Aircraft Activity at Hanscom Field, 2005 – 2017

Activity Aircraft Operations (7:00AM-11:00PM)	Year			Compound Annual Growth	
	2005	2012	2017	2005-2017	2012-2017
<b>General Aviation</b>					
Training (SEP)	58,535	70,196	46,014	-2.0%	-8.1%
Personal Flying (SEP)	57,894	51,477	33,040	-4.6%	-8.5%
Business Non-Jet (MEP+Turbo)	9,646	10,178	10,846	1.0%	1.3%
Business Jet	32,345	25,638	29,862	-0.7%	3.1%
Helicopter	7,004	7,345	8,256	1.4%	2.4%
<b>Subtotal GA</b>	<b>165,424</b>	<b>164,834</b>	<b>128,018</b>	<b>-2.1%</b>	<b>-4.9%</b>
<b>Military</b>	<b>904</b>	<b>745</b>	<b>759</b>	<b>-1.4%</b>	<b>0.4%</b>
<b>Scheduled Commercial Airline</b>	<b>3,627</b>	<b>635</b>	<b>0</b>	<b>-100.0%</b>	<b>-100.0%</b>
<b>Total Operations</b>	<b>169,955</b>	<b>166,214</b>	<b>128,777</b>	<b>-2.3%</b>	<b>-5.0%</b>
<b>Based Aircraft</b>	<b>387</b>	<b>340</b>	<b>350</b>	<b>-0.4%</b>	<b>0.6%</b>
Note: Operations between 7:00AM and 11:00PM, the hours that the air traffic control tower is open. Source: 2012 ESPR for Hanscom Field and Massport EXP NOMS System.					

# 2022 ESPR Proposed Scope: Airport Planning

- The chapter on airport planning will describe the status of planning initiatives and projects for airside and landside areas
- This chapter will also include updates on planning and development initiatives by the Minute Man National Historical Park, Hanscom Air Force Base, as well as the Towns of Bedford, Lexington, Lincoln, and Concord



## 2022 ESPR Proposed Scope: Regional Transportation Context

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- The regional transportation context chapter will describe the role of Hanscom in the region's transportation system, and will report on Massport's efforts to strengthen the regional transportation system
- This chapter will also describe Massport's three airport system and our efforts to best utilize these facilities

## 2022 ESPR Proposed Scope: Ground Transportation

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- The chapter on ground transportation will report on transportation conditions using:
  - Traffic, roadway and access analyses
  - Mode share data
  - Alternative transportation modes, both the availability and use
  - and Parking demand and management information
- This chapter will also evaluate background growth in traffic that is attributed to Hanscom as compared to other sources, and will evaluate the intersections that Hanscom traffic contributes 10 percent or more to both the existing and future traffic volumes

## 2022 ESPR Proposed Scope: Aircraft Noise

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- The Noise chapter of the ESPR will report on current conditions for 2022 and projections for the future forecast years using:
  - FAA's *Aviation Environmental Design Tool (AEDT)*
  - Total Noise Exposure (EXP)
  - Day-Night Average Sound Level (DNL) contours
  - Time-Above (TA) contours for a Given Threshold
- Noise assessment for both DNL and TA to be based on U.S. Census data
- Present noise data from the six permanent monitoring stations (minimum, maximum and average daily DNL values)
- Update on Fly Friendly and touch and go procedures over the MMNHP

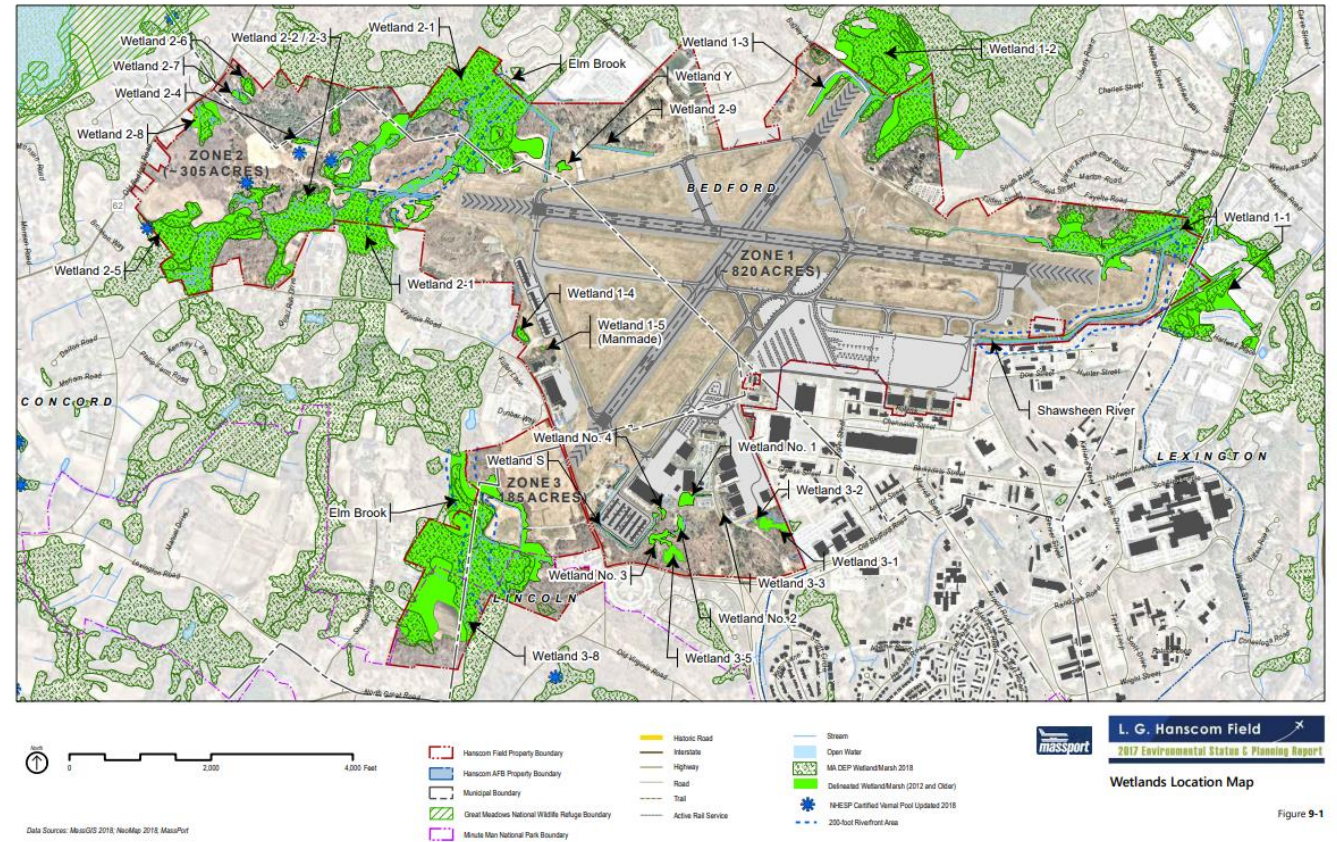
## 2022 ESPR Proposed Scope: Air Quality

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- The Air Quality chapter will report on current conditions for 2022 and projections for the forecast activity levels and years using the following indicators:
  - Carbon Monoxide (CO)
  - Nitrogen Oxides (NO<sub>x</sub>)
  - Volatile Organic Compounds (VOCs)
  - Particulate matter (PM<sub>10</sub>) and (PM<sub>2.5</sub>)
  - Greenhouse Gases

# 2022 ESPR Proposed Scope: Wetlands/Wildlife/Water Resources

- This chapter presents an overview of the natural environment, a summary of Massport's current efforts to minimize environmental impacts, and expected impacts from future development scenarios





# 2022 ESPR Proposed Scope: Cultural, Historic Resources, Environmental Justice

- The Cultural and Historical Resources and Environmental Justice chapter will review and update data on historic and archeological resources
- This chapter will also consider new the MEPA requirements related to Environmental Justice public involvement and project impact analysis

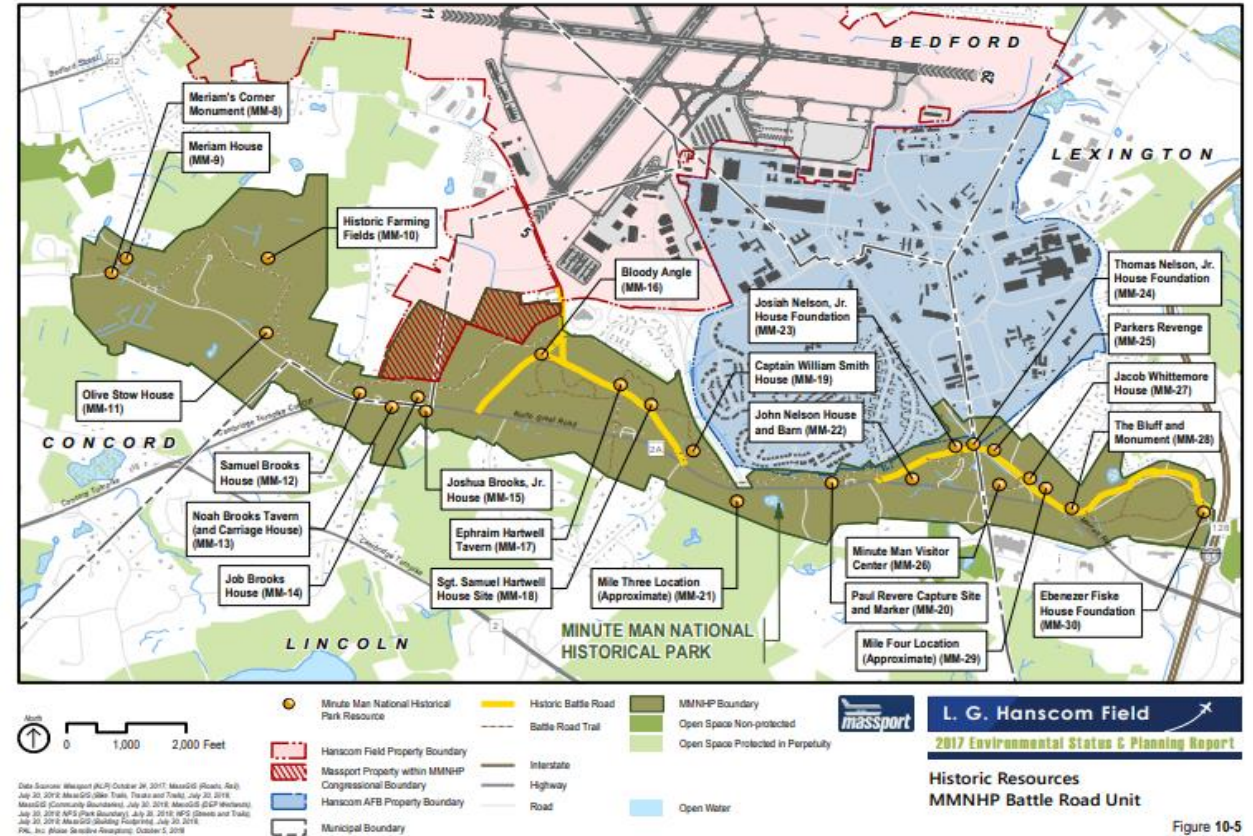


Figure 10-5

# 2022 ESPR Proposed Scope: Sustainable Development, Environmental Management, and Beneficial Measures

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- The chapter on Sustainable Development, Environmental Management and Beneficial Measures will provide a summary of Massport's existing sustainable practices as well as an overview of our Climate Action/Net Zero planning and how Hanscom Field is integrated into that Authority-wide effort
- This chapter will also provide an update on recycling policy and efforts, report on toxic waste reduction at the airport; and opportunities for additional sustainable development practices

# 2022 Hanscom Field ESPR Process: Schedule & Next Steps

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- Proposed Scope

- October 31, 2022      MEPA Filing ✓
- November 9, 2022      Noticed in Environmental Monitor ✓
- November 28, 2022      MEPA Scoping Meeting ✓
- December 9, 2022      Close of public comment period
- December 16, 2022      MEPA Scope Certificate issued

- ESPR Preparation

- Fall 2022 – Summer 2023      Field Studies/Technical Analysis
- Summer – Fall 2023      Technical Analysis/Document Preparation
- Fall 2023      ESPR Technical Workshop(s)
- Late 2023 (TBD)      2022 ESPR Filed with MEPA Office
- TBD      Public meeting on 2022 ESPR (during public comment period)
- TBD      MEPA Certificate issued

# MA Environmental Policy Act (MEPA) Public Process

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## Key Dates

- **MEPA Environmental Monitor:** November 9
- **Comment Period Closes:** December 9
- **Secretary's Certificate Issued:** December 16

## Send Written Comments to:

Bethany A. Card  
Executive Office of Energy and Environmental Affairs (EEA)  
Attn: MEPA Office  
Alex Strysky, EEA# 5484/8697  
100 Cambridge Street, Suite 900  
Boston, MA 02114

## Email:

[alexander.strycky@state.ma.us](mailto:alexander.strycky@state.ma.us)

## Online:

MEPA Public Comment Portal  
<https://www.mass.gov/service-details/submitting-comments>

# Questions?

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If you have any questions about the 2022 Hanscom Field ESPR please contact:

- Brad Washburn  
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617-568-3546 or [bwashburn@massport.com](mailto:bwashburn@massport.com)
- Amber Goodspeed  
Manager, Airport Administration  
781-869-8022 or [agoodspeed@massport.com](mailto:agoodspeed@massport.com)