

APPENDIX J

Coastal Zone Consistency Certification



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Environmental Consultants, LTD

**Federal Coastal Zone Consistency Update:
Richmond Executive - Chesterfield County Airport (FCI)
Environmental Assessment (EA)
Chesterfield, Virginia**

Prepared for:

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Introduction

The Richmond Executive - Chesterfield County Airport (FCI) has completed an Environmental Assessment (EA) to provide documentation of impacts to environmental resources resulting from proposed development projects at the facility. This EA has been completed pursuant to the National Environmental Policy Act (NEPA) in accordance with Federal Aviation Administration (FAA) Order 1050.1E, Environmental Impacts Policies and Procedures and FAA Order 5050.4B, National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions. These orders provide instructions for addressing the environmental consequences for federally-funded actions as required by the Council of Environmental Quality (CEQ), Regulations for Implementing the National Environmental Policy Act (NEPA) of 1969 and other laws and statutes as applicable.

The EA also complies with Commonwealth of Virginia environmental regulations, and applicable Chesterfield County, Virginia ordinances and regulations. The purpose of this EA, is to reveal and analyze the potential environmental impacts of the Proposed Action of the assessment. The airfield infrastructure projects shown below constitute this Proposed Action. In addition, these projects are also included in the airport's five-year Airport Capital Improvement Program (ACIP) and on the approved 2012 Airport Layout Plan (ALP). Additionally, a Master Plan Update (MPU) was completed for the Richmond Executive-Chesterfield County Airport in 2012.

Projects associated with the Proposed Action include:

1. Land Acquisition – fee simple and avigation easement
2. Obstruction Removal – existing and proposed, on and off airport
3. Obstruction Lighting – terrain penetrations
4. Extend Runway 15-33 and Parallel Taxiway – includes extension of the runway safety area (RSA), blast pad construction, relocation of the localizer, glideslope, and precision approach path indicators (PAPIs)
5. Install MALSR – Runway 15
6. Relocate Power Lines (underground)
7. Construct T-Hangar (east side of airfield)
8. Construct Conventional Hangars (3) (east side of airfield)
9. Fuel Farm Improvement
10. Replace Rotating Beacon
11. Relocate Glideslope

Overview

The environmental assessment (EA) provides documentation of potential impacts to environmental resources resulting from proposed development projects (Proposed Action) at the Richmond Executive – Chesterfield County Airport (FCI).

Enclosure 1. Shows the vicinity of the Chesterfield County Airport (FCI). The Airport is situated approximately eight (8) statute miles southwest (SW) of Richmond, Virginia, and approximately six (6) statute miles north, northwest (NNW) of Chester, Virginia.

The Richmond Executive - Chesterfield County Airport lies within the coastal plain of Virginia at the extreme western (W) edge of this physiographic region. The airport lies in the James River watershed. Stormwater runoff from the area drains into Licking Creek, Reedy Creek, Proctors Creek, and other small stream systems which empty into the James River which leads to the Chesapeake Bay and the Atlantic Ocean.

The Coastal Zone Management Act (CZMA) of 1972 is one of the supporting laws for the National Environmental Policy Act (NEPA) of 1969. Pursuant to the CZMA, the National Oceanic and Atmospheric Administration (NOAA) in 1986 approved the Virginia Coastal Resources Management Program (VCP). This program contains enforceable policies which pertain to Virginia's Coastal Management Area. These policies apply to any "federal activity or federally supported activity which are reasonably likely to affect any land or water use or natural resources of Virginia's designated coastal resources management area".

Virginia Coastal Zone Management Program Enforceable Policies – Richmond Executive - Chesterfield County Airport (FCI)

- A. **Fisheries Management** – No development projects in the Proposed Action of the EA would have an impact, either directly or indirectly, on finfish or shellfish resources and would not affect the promotion of commercial or recreational fisheries. Tributyltin (TBT) will not be used in any form in development activities. This program is administered by the Virginia Marine Resources Commission (VMRC) (Virginia Code §28.2-200 to §28.2-713) and the Department of Game and Inland Fisheries (DGIF) (Virginia Code §29.1-100 to §29.1-570).

- B. **Subaqueous Land Management** –The management program for subaqueous lands establishes conditions for granting or denying permits to use state-owned bottomlands based on considerations of potential effects on marine and fisheries resources, wetlands, adjacent or nearby properties, anticipated public and private benefits, and water quality standards established by the DEQ Water Division. The program is administered by the MRC (Virginia Code §28.2-1200 to §28.2-1213).

No state-owned bottomlands are slated to be impacted by the Proposed Action of the EA.

- C. **Wetlands Management** – Some of the development activities in the Proposed Action at the Chesterfield County Airport (FCI) will involve impacts to non-tidal jurisdictional wetlands or waters of the United States under 33 CFR 328.3 (a) and will require a US Army Corps of Engineers (USACE) permit and a Virginia Department of Environmental Quality Water Protection Permit. The exact acreage for each of these impacts will not be known until final project design is complete. However, the estimated acreages of wetland impacts based on the Preliminary Engineering Report (PER), finalized in April of 2014, total 23.2 acres. Of these impacts, 11.3 acres are to be fill and grade impacts, and 11.9 acres will be by conversion from PFO wetlands to PEM. In order to determine the exact location

of these wetlands and avoid or minimize project impacts, several wetlands delineations have been conducted both on and off airport property, and a jurisdictional determination (JD) for each of these delineations obtained from the Norfolk District, US Army Corps of Engineers (USACE) (Enclosure 2.).

Permit(s) acquisition will contain replacement mitigation ratios for wetlands impacts by type and source. These must be met before any projects are authorized. The proposed development will also require a Virginia Water Protection Permit (VWPP) issued by the Department of Environmental Quality (DEQ).

No tidal wetlands are located at any of the proposed project locations on the Chesterfield County Airport (FCI).

The tidal wetlands program is administered by the Marine Resources Commission; Virginia Code §28.2-1301 through §28.2-1320 while the Virginia Water Protection Permit program administered by DEQ includes protection of wetlands – both tidal and non-tidal; Virginia Code §62.1-44.15:5 and Water Quality Certification pursuant to Section 401 of the Clean Water Act.

- D. **Dunes Management** – Dune protection is carried out pursuant to the Coastal Primary Sand Dune Protection Act and is intended to prevent destruction or alteration of primary dunes. This program is administered by the Marine Resources Commission (Virginia Code §28.2-1400 through §28.2-1420).

Due to its geographical location, no primary dunes will be impacted by the Proposed Action at FCI.

- E. **Non-Point Source Pollution Control** – All Proposed Action development will be designed and constructed to minimize soil erosion and retard the input of chemical nutrients and sediments to the Chesapeake Bay, its tributaries, and other waters of the Commonwealth. Prior to construction, all required erosion and sediment controls will be installed in accordance with the Virginia Erosion and Sediment Control Handbook (VESCH, 3rd Edition) in order to prevent any erosion or introduction of chemical nutrients or sediments into the stormwater management system or tributaries that carry runoff from the Chesterfield County Airport. An erosion and sediment control plan will be prepared based on the guidelines of VESCH, 3rd Edition. This program is administered by the Department of Conservation and Recreation; Virginia Code §10.1-560 (et.seq.)
- F. **Point Source Pollution Control** – The completion of Proposed Action development activities at the Chesterfield County Airport is not anticipated to generate any new point sources of pollution; however, all activities will be conducted in compliance with the Airport's Stormwater Pollution Prevention Plan (SWPPP) and its VPDES Permit. This program is administered by DEQ pursuant to Virginia Code §62.1-44.15.

Proposed Action development will also be conducted in accordance with Virginia's Water Protection program (which includes impacts to non-tidal wetlands) issued pursuant to Section 401 of the Clean Water Act.

- G. **Shoreline Sanitation** – Proposed Action development at Chesterfield County Airport will not involve sanitary waste. Temporary requirements for sanitary waste treatment will be addressed within existing airport buildings or portable facilities, depending on the location of the project. This program is administered by the Department of Health (Virginia Code §32.1-164 through §32.1-165).

- H. **Air Pollution Control** – Proposed Action development projects at Chesterfield County Airport (FCI) will be in complete compliance with the Clean Air Act, as amended, and will not cause or contribute to any new or existing violations of the National Ambient Air Quality Standards. This program is administered by the Virginia Air Pollution Control Board (Virginia Code §10.1-1300 through §10.1-1320).

- I. **Coastal Lands Management** – Based on the airport's location, no coastal lands will be involved in any Proposed Action development. However, all projects must comply with the Chesapeake Bay Preservation Act as amended. Therefore all provisions of the CBPA will be followed for any development actions if applicable. This enforceable policy is administered by the Chesapeake Bay Local Assistance Department and 84 localities in Tidewater, Virginia established pursuant to the Chesapeake Bay Preservation Act; Virginia Code §10.1-2100-10.1-2114 and Chesapeake Bay Preservation Area Designation and Management Regulations; Virginia Administrative Code 9 VAC 10-20 (et.seq.).

Each Tidewater locality has in place a program based on the Chesapeake Bay Preservation Act and the Chesapeake Bay Preservation Area Designation and Management Regulations. These local Bay Act programs include:

1. A map generally depicting Chesapeake Bay Preservation Areas (components of which are Resource Protection Areas and Resource Management Areas).
2. An ordinance containing performance criteria pertaining to the use, development and redevelopment of land.
3. A comprehensive plan or revision that incorporates the protection of Chesapeake Bay Preservation Areas and of the quality of state waters.
4. A zoning ordinance that incorporates measures to protect the quality of state waters.
5. A subdivision ordinance that incorporates measures to protect the quality of waters of the state.
6. A plan of development process prior to the issuance of a building permit to assure that the use and development of land in Chesapeake Bay Preservation Areas is accomplished in a manner that protects the quality of state waters. Enclosure 3. shows the drainage patterns of waters on and off the airport and in the environmental assessment (EA) survey areas. This enclosure (Exhibit X) also

shows delineated jurisdictional wetlands and potential disturbed areas by development project(s).

In conjunction with determining that development activities outlined in the EA Proposed Action complied with the CBPA, a Perennial Stream Determination and Resource Protection Area Designation study (Enclosure 4.) was completed. This study was designed to identify whether five (5) stream systems that had no Resource Protection Area (RPA) designation qualified for such a title. Based on the study, the Chesterfield County, Virginia Department of Environmental Engineering designated the areas adjacent to these streams as Resource Protection Areas (RPAs) (Enclosure 5).

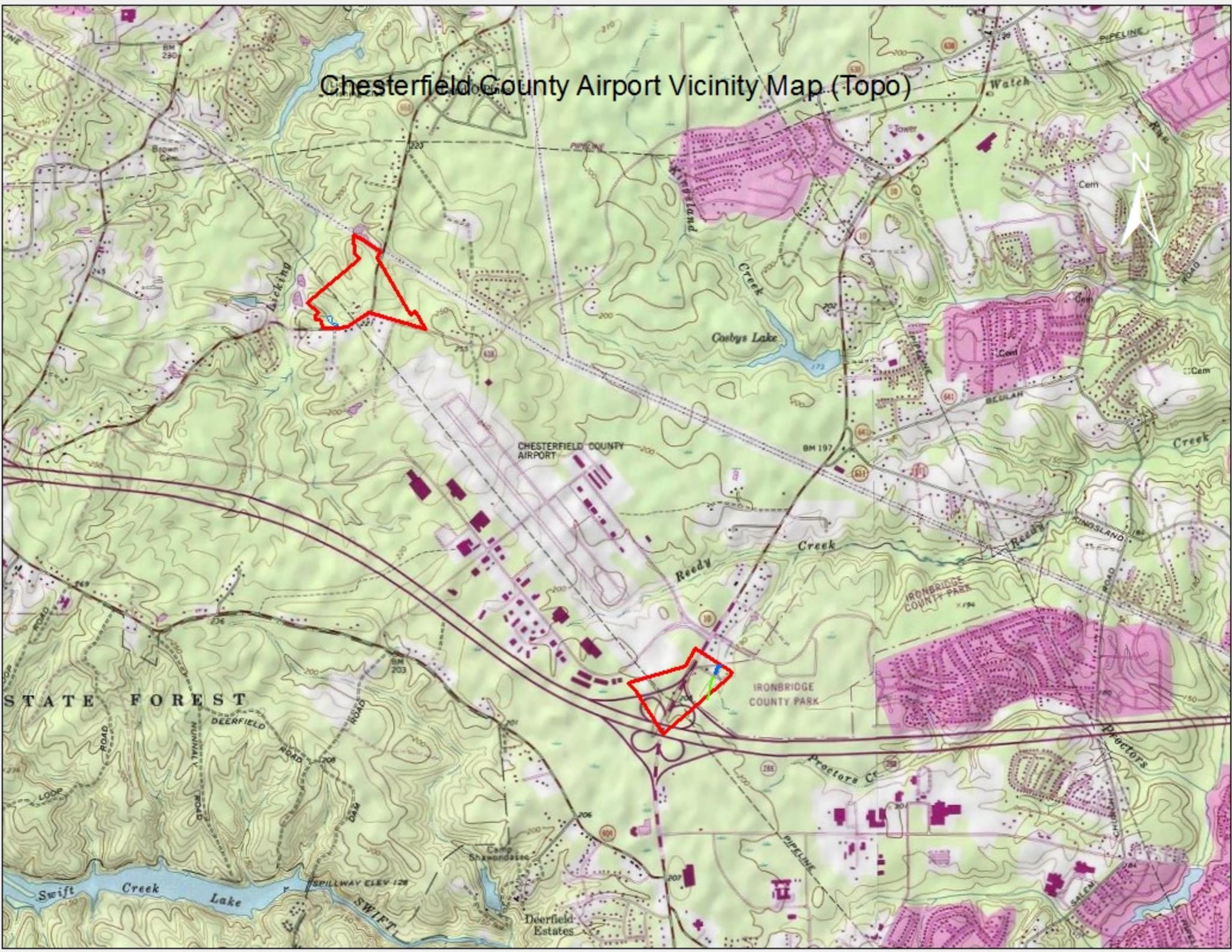
A review was completed on the Advisory Policies (recommendations) of the Virginia Coastal Program as part of this consistency determination. The review determined that no recommendations should be made on any of the Geographic Areas of Particular Concern or Shorefront Access Planning and Protection.

Completion of the ongoing environmental assessment for development projects (construction of the runway and adjacent taxiway extension and obstruction removal) at the Chesterfield County Airport has been determined to be consistent with the approved VCRMP. It is not anticipated that any development projects of the EA would be inconsistent with any of the Enforceable Regulatory Programs. The EA is a planning document and any development activities arising from the document must comply with any and all environmental laws and regulations in effect at the time of the proposed action.

Enclosure 1.

**Vicinity Map of Richmond Executive -
Chesterfield County Airport**

Chesterfield County Airport Vicinity Map (Topo)



Enclosure 2.

**Wetland Delineation(s) Results With
Jurisdictional Determinations (JDs)
For Project Areas**

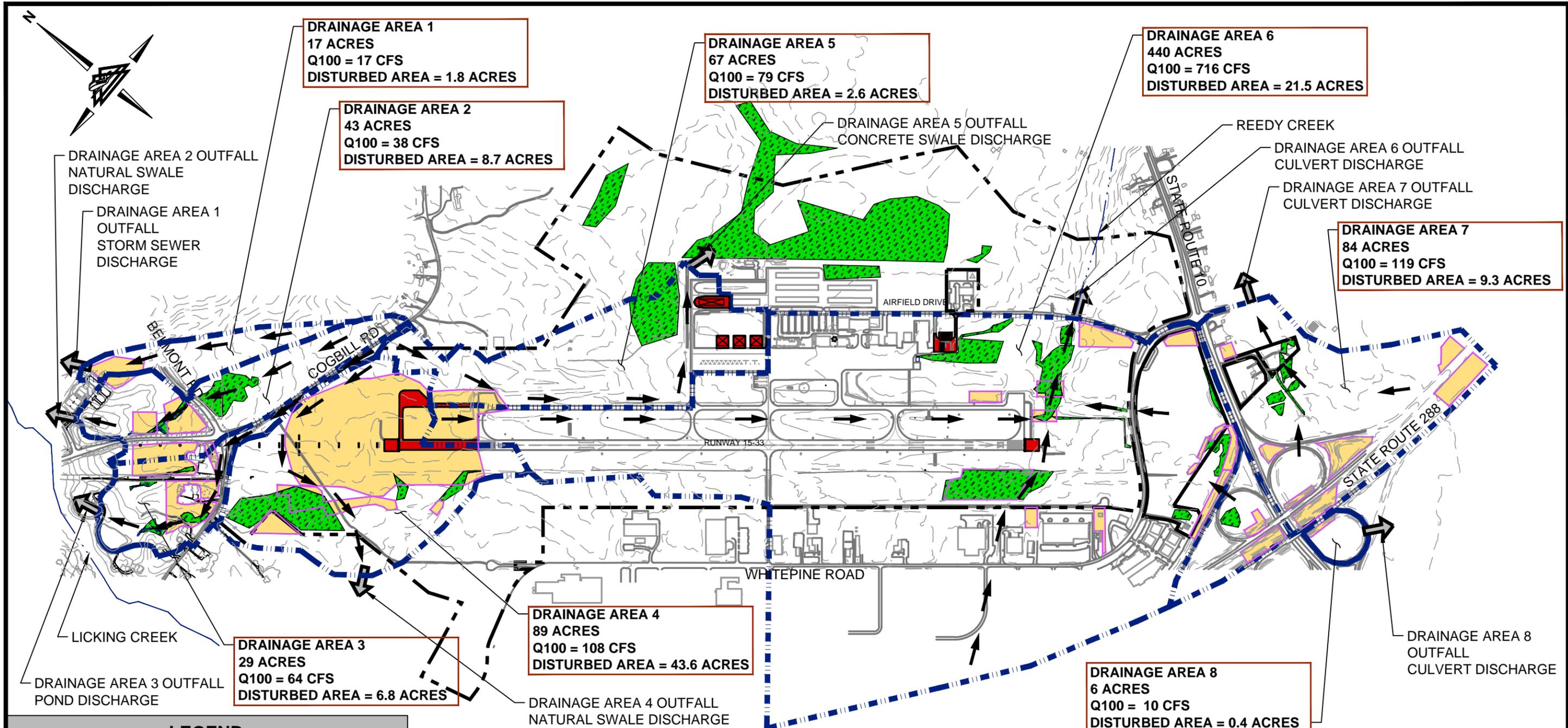
Please refer to Appendix H



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Enclosure 3.

**Map of Drainage Patterns of Waters
On/Off Chesterfield County Airport**



DRAINAGE AREA 1
 17 ACRES
 Q100 = 17 CFS
 DISTURBED AREA = 1.8 ACRES

DRAINAGE AREA 2
 43 ACRES
 Q100 = 38 CFS
 DISTURBED AREA = 8.7 ACRES

DRAINAGE AREA 5
 67 ACRES
 Q100 = 79 CFS
 DISTURBED AREA = 2.6 ACRES

DRAINAGE AREA 6
 440 ACRES
 Q100 = 716 CFS
 DISTURBED AREA = 21.5 ACRES

DRAINAGE AREA 7
 84 ACRES
 Q100 = 119 CFS
 DISTURBED AREA = 9.3 ACRES

DRAINAGE AREA 4
 89 ACRES
 Q100 = 108 CFS
 DISTURBED AREA = 43.6 ACRES

DRAINAGE AREA 3
 29 ACRES
 Q100 = 64 CFS
 DISTURBED AREA = 6.8 ACRES

DRAINAGE AREA 8
 6 ACRES
 Q100 = 10 CFS
 DISTURBED AREA = 0.4 ACRES

LEGEND

DESCRIPTION	EXISTING
AIRPORT PROPERTY LINE	— — — — —
EXISTING STREAM	— · — · — ·
WETLANDS	
GENERAL DRAINAGE FLOW	→
DRAINAGE AREA BOUNDARY	- · - · - ·
DISTURBED AREA	
NEW PAVEMENT/BUILDINGS	

* DRAINAGE AREAS 1, 2, 3, & 4 ALL DRAIN TO LICKING CREEK
 ** DRAINAGE AREAS 5, 6, & 7 ALL DRAIN TO REEDY CREEK
 *** DRAINAGE AREA 8 DRAINS TO PROCTORS CREEK



**DRAINAGE PATTERNS
 CHESTERFIELD COUNTY AIRPORT**

**EXHIBIT
 X**

DRAWING: 10086-DrainagePatterns.dwg LAYOUT: L1

Enclosure 4.

**Perennial Stream Determination and
Resource Protection Area (RPA)
Designation Study – 5 Streams in Survey Area**

Please refer to Appendix G



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