



Venice Municipal Airport

Who We Are: *CMT Aviation Leadership*



Greg Heaton, PE, CM,
AICP, MBA

Florida Aviation
Group Manager



Robert Gross, Ph.D.

Senior Air Quality Scientist



Dave Long, AAE, MBA

Senior Consultant - Revenue
Enhancement

Master Plan: *Purpose*

Forecast Future Needs

Evaluate anticipated potential growth in aviation activity & Airport operations

Guide Development Decisions

Identify potential short, medium, and long term facility and infrastructure improvements over a 20-year planning horizon

Support Funding & Implementation

Establish development priorities, costs, and phasing to support capital improvement programming and grant funding

Align Stakeholders

Create a shared vision among airport management, governing boards, tenants, users, regulators, and the surrounding community

Ensure Regulatory Compliance

Maintain consistency with FAA requirements, Airport Layout Plan, environmental considerations, and local planning objectives

Master Plan: *Environmental Conditions*

FAA Order 1050.1F, Environmental Impacts: Policies and Procedures

Air Quality

Historical, Archaeological, Architectural, and Cultural Resources

Biological Resources

Natural Resources and Energy Supply

Coastal Resources

Noise and Noise Compatible land Use

Section 4(f) Resources

Socioeconomics and Environmental Justice

Hazardous Materials

Water Resources

Airport Regulatory Compliance Requirements

NEPA/Federal Environmental Review

- National Environmental Policy Act (NEPA), 42 U.S.C §§ 4321– 4370m
- Council on Environmental Quality (CEQ) NEPA Regulations

Air Quality

- Clean Air Act (CAA), 42 U.S.C. §§ 7401–7671q
- General Conformity Rule (40 CFR Part 93, Subpart B)

Water Resources

- Clean Air Act, 33 U.S.C. §§ 1251–1387
 - Section 401 – Water Quality Certification
 - Section 402 – NPDES permitting (stormwater)
 - Section 404 – dredge and fill (wetlands)

Biological Resources

- Endangered Species Act (ESA), 16 U.S.C. §§ 1531–1544
- Fish and Wildlife Coordination Act, 16 U.S.C. §§ 661–667e
- Migratory Bird Treaty Act (MBTA), 16 U.S.C. §§ 703–712

Historical/Cultural Resources

- National Historic Preservation Act (NHPA), 54 U.S.C. § 300101 et seq.
- Department of Transportation Act, Section 4(f), 49 U.S.C. § 303

Noise and Land Use Compatibility

- Aviation Safety and Noise Abatement Act (ASNA), 49 U.S.C. §§ 47501–47510
- Airport Noise and Capacity Act (ANCA), 49 U.S.C. §§ 47521–47534

Hazardous Materials/Contamination

- Resource Conservation and Recovery Act (RCRA), 42 U.S.C. §§ 6901–6992k
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA / Superfund), 42 U.S.C. §§ 9601–9675

Land, Coastal, and Agricultural Resources

- Farmland Protection Policy Act (FPPA), 7 U.S.C. §§ 4201–4209
- Coastal Zone Management Act (CZMA), 16 U.S.C. §§ 1451–1466

Airport Regulatory Compliance Requirements

Additional Environmental Resource Laws

- Wild and Scenic Rivers Act, 16 U.S.C. §§ 1271–1287
- National Wildlife Refuge System Administration Act, 16 U.S.C. §§ 668dd–668ee
- Noise Control Act, 42 U.S.C. §§ 4901–4918
- Clean Air Act – Title VI (Stratospheric Ozone Protection)

Executive Orders/FAA Guidance

- EO 11988 – Floodplain Management
- EO 11990 – Protection of Wetlands
- EO 12898 – Environmental Justice
- FAA Order 1050.10D – Environmental Pollution Control and Abatement
- FAA Order 1050.15C – Fuel Storage Tank Systems
- FAA Order 1050.18A – Ozone-Depleting Substances / GHGs
- AC 150/5320-10 – Environmental Enhancement at Airports (Industrial Waste Treatment)
- AC 150/5200-33 – Hazardous Wildlife Attractants (land use / habitat interface)

Florida Environmental Statutes

- Chapter 373, Florida Statutes – Water Resources
- Chapter 403, Florida Statutes – Environmental Control
- Chapter 62-330 Florida Administrative Code
- Chapter 62-340 Florida Administrative Code

City of Venice

- Private stormwater system operation and maintenance certification

What *CMT* Has ALREADY Provided for VNC

Updated the Stormwater Pollution Prevention Plan (SWPPP)

- In accordance with National Pollutant Discharge Elimination System (NPDES) and State Regulations
- Data Collection and Review
- Site Visit
 - Document existing conditions
 - Confirm existing outfalls
 - Document maintenance concerns
 - Took photographs to update those in the existing SWPPP
- Regulatory Review
 - Review impact of Florida's new stormwater rules on VNC's existing 2021 SWPPP with a focus on compliance with updated Operational & Maintenance and Qualified Stormwater Inspector requirements.
- Revised SWPPP Provided:
 - Clear documentation and maintenance of outfalls
 - Update of pollution prevention personnel and roles
 - Update O&M documentation based on new stormwater rules
 - Update maps and photographs
 - Provide action plan for the 2027 full NPDES permit renewal



What *CMT* Is PREPARING to Provide VNC

2026 Stormwater System Operation & Maintenance Certification

- Task 1 - 2026 Stormwater O&M Certification
 - Data Collection/Review
 - Site Visit
 - Certification Documentation
 - Professional Engineer Signature & Seal
 - Submittal Package

What *CMT* Is PREPARING to Provide VNC

Stormwater Inspection and Documentation Update

- Task 2 – Stormwater Inspection & Documentation Update
 - Review SB 7040 inspection and documentation expectations
 - Identify required inspection elements applicable to post-construction stormwater system, including:
 - Structural condition of stormwater features
 - Accessibility and visibility of inlets, conveyances, and outfalls
 - Evidence of sediment accumulation, vegetation encroachment, or obstructions
 - Identification of observed deficiencies and follow-up actions
 - Development of a standardized, reusable inspection form that documents
 - Inspection date and inspector qualifications
 - Observed conditions and maintenance needs
 - Corrective action tracking fields suitable for ongoing use
 - Formatting the inspection form in an editable format suitable for repeated use

What *CMT* Is PREPARING to Provide VNC

Stormwater Runoff Sampling Plan

Task 3 – Stormwater Runoff Sampling Plan

PURPOSE - Develop a voluntary water quality monitoring plan and schedule for the Deertown Gully outfall to establish baseline stormwater runoff conditions and promote public transparency. Water quality testing is not required by the Florida Department of Environmental Protection (FDEP) unless specifically mandated by an NPDES permit.

- Identification of one representative sampling location near Deertown Gully downstream of VNC stormwater discharges
- Development of a recommended routine sampling schedule
- Recommendation for water quality parameters to be tested
- Recommendation of local Florida certified environmental testing firm(s)
- Budgetary opinion of probable costs for the recurring sampling testing

Compensation of Tasks 1, 2 & 3

- Not to Exceed \$13,560 (already approved)

What *CMT* Can Provide To VNC

Overall Review of Airport Regulatory Compliance Requirements

Implement the Stormwater Runoff Sampling Plan

Perform an Air Quality Analysis at VNC

- **Task 1** – Preparation of an emissions inventory for tracking and benchmarking purposes
- **Task 2** – Air dispersion modeling analysis to compare predicted pollutant concentrations to the EPA National Ambient Air Quality Standards (NAAQS)

What *CMT* Can Provide To VNC

Task 1 – Airport Emissions Inventory

Objective: Develop a baseline airport emissions inventory in accordance with EPA and FAA guidance to evaluate potential air quality impacts and establish existing conditions

- Pollutants Evaluated in accordance with EPA NAAQS and FAA Aviation Emissions and Air Quality Handbook:
 - Carbon Monoxide (CO)
 - Lead (Pb)
 - Nitrogen Dioxide (NO₂)
 - Ozone (O₃)
 - Precursor emissions – primarily Nitrogen Oxide (NO_x) and volatile organic compounds (VOCs)
 - Particulate matter (PM) – both PM_{2.5} and PM₁₀
 - Sulfur Dioxide (SO₂)
- Inventory will include emissions from the following airport-related sources:
 - Aircraft
 - Auxiliary Power Units (APUs)
 - Ground Support Equipment (GSE)
 - Airport Related Motor Vehicles
 - Stationary Sources

What *CMT* Can Provide To VNC

Task 1 – Airport Emissions Inventory

Primary tools used for the analysis will include:

- The latest version of FAA's *Aviation Environmental Design Tool (AEDT)* for aircraft-related and other airport activity sources (e.g., GSE, APUs, and certain stationary sources)
- The latest version of EPA's *Motor Vehicle Emissions Simulator (MOVES)* model for on-road vehicle emissions
- EPA's *AP-42 Compilation of Emission Factors* for stationary and other sources not represented in AEDT or MOVES.

What *CMT* Can Provide To VNC

Task 2 – Emissions Dispersion Modeling

Task 1 prepared a baseline year emissions inventory - Task 2 evaluates baseline year air quality impacts from airport related emissions sources and estimate ambient (outdoor) pollutant concentrations on and around VNC.

- Pollutants evaluated will include CO, NO_x, VOCs, PM₁₀, PM_{2.5}, and SO₂.
- Concentrations will be predicted at a network of receptor locations (multiple virtual locations) established across the study area using a grid-based approach.
- Receptors will include publicly accessible locations where exposure may occur, such as residential areas, schools, parks, and healthcare or daycare facilities, based on current land use information.
- Modeling will be conducted in accordance with FAA and EPA-approved protocols and methodologies.
- Modeling results will be expressed in concentration units (e.g., parts per million [ppm] or micrograms per cubic meter [$\mu\text{g}/\text{m}^3$] and compared to the applicable NAAQS.

What *CMT* Can Provide To VNC

Overall Review of Airport Regulatory Compliance Requirements

- Not to Exceed \$15,000

Implement the Stormwater Runoff Sampling Plan for 1 Year

- Not to Exceed \$35,000 – does not include testing costs from certified 3rd party laboratory

Perform an Air Quality Analysis at VNC

- Task 1 – \$30,000 - \$45,000
- Task 2 – \$65,000 - \$85,000
- If done concurrently – \$90,000 - \$100,000

Elevating infrastructure, *together.*



Infrastructure Professionals