# ATTACHMENT 2
# ITEM B.1
# Topographic Map & Supporting Information

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**Item B.1.1 Facility Topographic Map**[1]

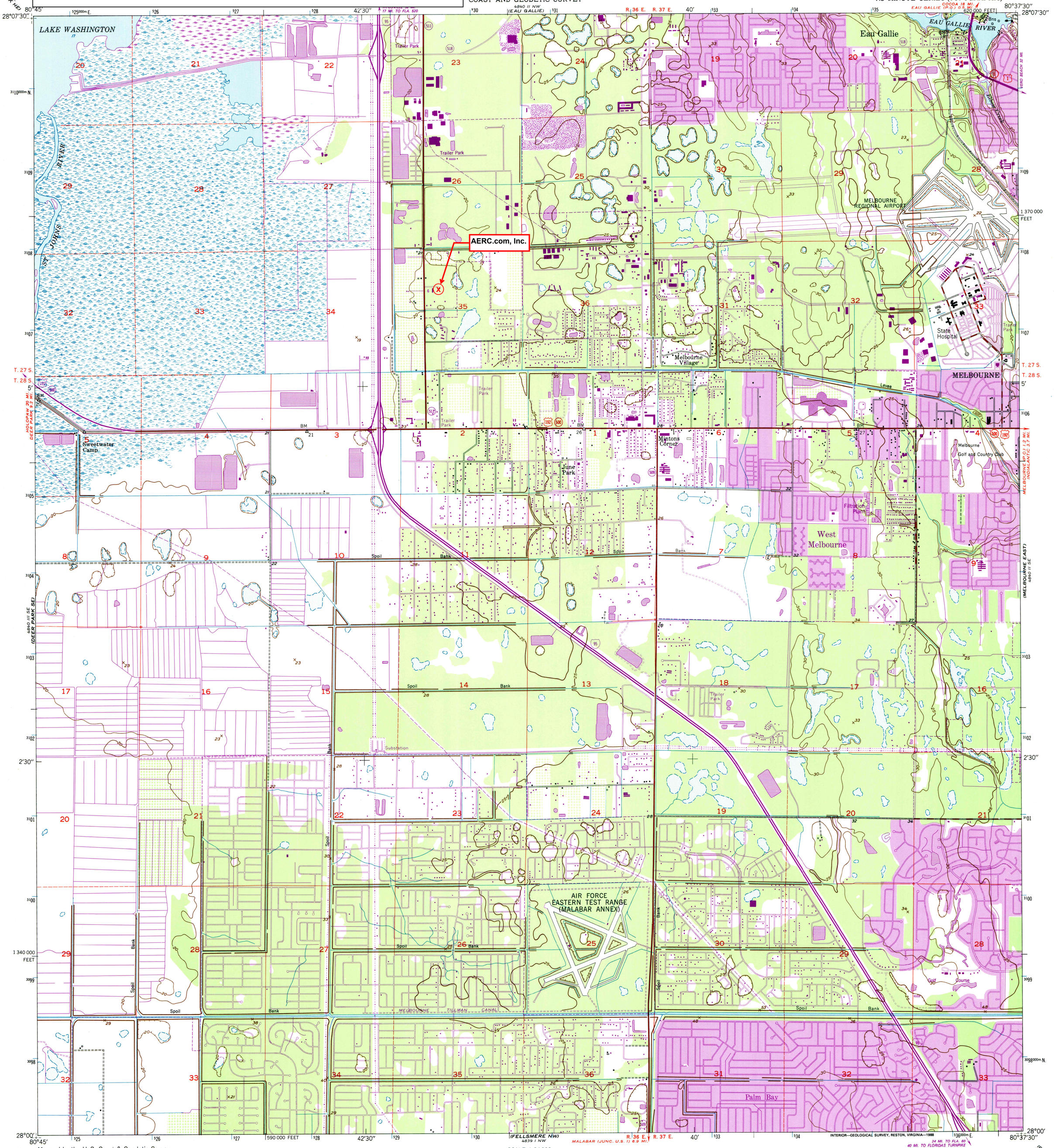
**Item B.1.2 Facility 100-year Floodplain**

**Item B.1.3 Facility Wind Rose**

[1] An annotated, single hard copy of the full-scale 7.5 Minute Series (Topographic) USGS Map of the *Melbourne West Quadrangle | Florida-Brevard Co.*, is included with the hard copy mailing of the updated permit renewal application.

UNITED STATES
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

MELBOURNE WEST QUADRANGLE
FLORIDA-BREVARD CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped by the U. S. Coast & Geodetic Survey
Edited and published by the Geological Survey

Control by Florida Geodetic Survey

Culture and drainage in part compiled from aerial photographs taken 1947
Topography by plane-table methods 1948. Field check 1949

Polyconic projection
10,000-foot grid based on Florida coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue. 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 29 meters south and 21 meters west as shown by dashed corner ticks

Dashed land lines indicate approximate location

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1988 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revision shown in purple compiled from aerial photographs taken 1984 and other sources. This information not field checked. Map edited 1988

Purple tint indicates extension of urban area

ROAD CLASSIFICATION
Heavy-duty — 4 LANE | 6 LANE
Medium-duty — 4 LANE | 6 LANE
Light duty
Unimproved dirt
Interstate Route
U. S. Route
State Route

MELBOURNE WEST, FLA.
28080-A6-TF-024
1949
PHOTOREVISED 1988
DMA 4840 II SW—SERIES V847

ISBN 0-607-14089-5

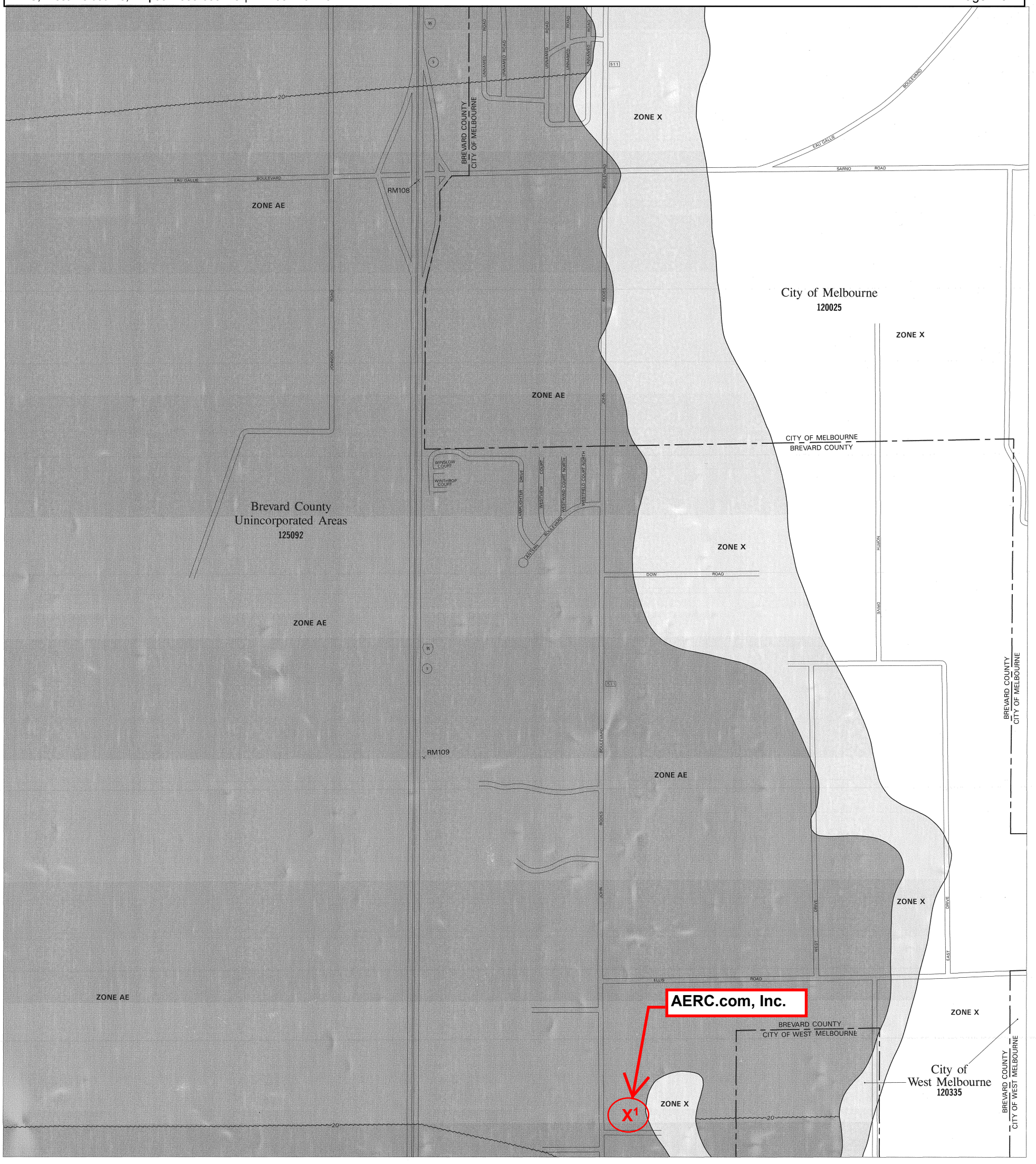
# Mercury Recovery Facility Permit Renewal Application

ATTACHMENT 2 - ITEM B.1.2 | Facility 100-year Floodplain

AERC, West Melbourne, FL | 0072959-003-HO | FLD 984 262 782

Revision #: 1 | December 21, 2011






[1] Marks the approximate location of AERC.com, Inc.

## LEGEND

**SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD**

- **ZONE A** No base flood elevations determined.
- **ZONE AE** Base flood elevations determined.
- **ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- **ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base elevations determined.
- **ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- **ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.

**FLOODWAY AREAS IN ZONE AE**

**OTHER FLOOD AREAS**

- **ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

**OTHER AREAS**

- **ZONE X** Areas determined to be outside 500-year flood plain.
- **ZONE D** Areas in which flood hazards are undetermined.

Flood Boundary

Floodway Boundary

Zone D Boundary

Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.

513 — Base Flood Elevation Line; Elevation in Feet*

D — D — Cross Section Line

(EL 987) — Base Flood Elevation in Feet Where Uniform Within Zone*

RM7X — Elevation Reference Mark

•M1.5 — River Mile

*Referenced to the National Geodetic Vertical Datum of 1929

## NOTES

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside Special Flood Hazard Areas.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown at 1/20 inch.

Coastal base flood elevations apply only landward of the shoreline.

Elevation reference marks are described in the Flood Insurance Study Report.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

For community panel revision history prior to countywide mapping, see section 6.0 of the Flood Insurance Study Report.

For adjoining panels, see separately printed Map Index

MAP REPOSITORY

Refer to Repository Listing on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:

APRIL 3, 1989

EFFECTIVE DATE(S) OF REVISIONS TO THIS PANEL:

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6620.

APPROXIMATE SCALE IN FEET

5000 0 5000

NATIONAL FLOOD INSURANCE PROGRAM

# FIRM
## FLOOD INSURANCE RATE MAP

BREVARD COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 502 OF 727

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| MELBOURNE, CITY OF | 120025 | 0502 | E |
| WEST MELBOURNE, CITY OF | 120335 | 0502 | E |
| UNINCORPORATED AREAS | 125092 | 0502 | E |

PANEL LOCATION

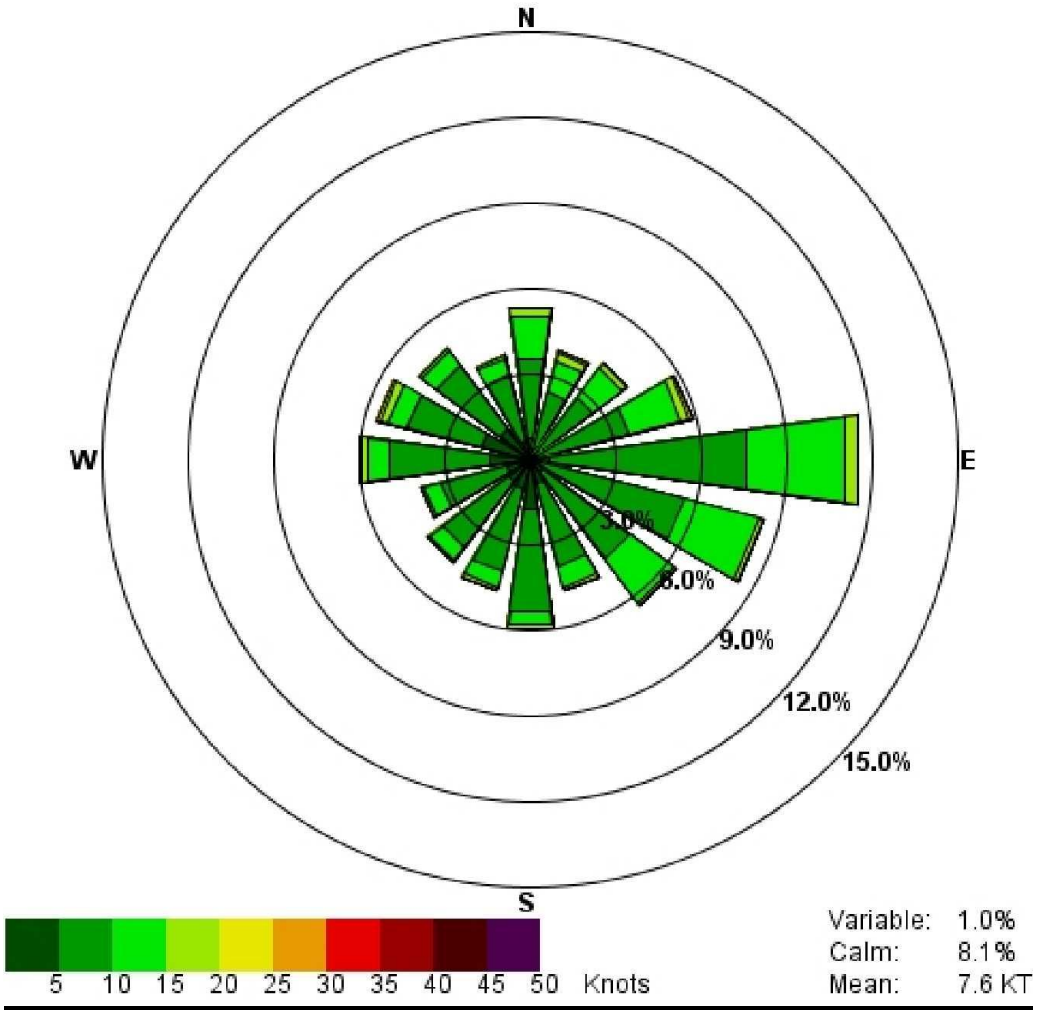
MAP NUMBER:
12009C0502 E

EFFECTIVE DATE:
APRIL 3, 1989

Federal Emergency Management Agency

# MELBOURNE REGIONAL

10-year summary: 2000 - 2009




Reference: MLB Webmaster. September 3, 2010. East Central Florida Wind Roses. *National Oceanic And Atmospheric Administration*. Retrieved November 23, 2011. http://www.srh.noaa.gov/mlb/?n=windrose