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EDGE ATLAS

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JAMAICA BAY EDGE ATLAS

STRUCTURES OF COASTAL RESILIENCE
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COVER
Aerial imagery tiles, SCR Jamaica Bay study area.

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NOTES ON DATA AND SOURCES

**Aerial Imagery**  Tiles from ESRI World Imagery map server, accessed October 2013.

**Land use**  GIS data from New York City Department of City Planning, MapPLUTO Release 14V1, May 2014. No land use data for Nassau County was publicly available for download.

**Edge condition**  Coding is compiled from the New York City Department of Environmental Protection’s Jamaica Bay Watershed Protection Plan Volume 1, Figure 4.5.1 (Natural and Artificial Shoreline) from October 2007; the National Park Service Inventory of Coastal Engineering Projects in Gateway National Recreation Area from May 1, 2013; and FEMA’s Preliminary Digital Flood Insurance Rate Map dataset from December 5, 2013. The shoreline shown is based on the Waterline from this FEMA dataset and manually refined using aerial imagery and NOAA Navigational Chart 12335.

**Flood zone**  Maps shown are FEMA’s Preliminary Digital Flood Insurance Rate Maps (DFIRMs) current as of December 5, 2013, accessed from the New York City Digital Flood Insurance Rate Map database. No data was available for Nassau County. Shown in this atlas are Special Flood Hazard Areas VE (pink tone overlaid with aerial) and AE (blue tone overlaid with aerial), as well as Moderate Flood Hazard Areas B/X (yellow tone overlaid with aerial). Also shown are the BFE (numbers overlaid with land use map) and LiMWA (black line and arrows overlaid with land use map).

**Zone B/X**  is defined by FEMA as: Moderate flood hazard areas, labeled Zone B or Zone X (shaded), are the areas between the limits of the base flood and the 0.2-percent-annual-chance (500-year) flood.

**Zone AE**  is defined by FEMA as: Areas subject to inundation by the 1-percent-annual-chance (100-year) flood event. The delineated flood hazard includes wave heights less than three feet.

**Zone VE**  is defined by FEMA as: Areas subject to inundation by the 1-percent-annual-chance (100-year) flood event with additional hazards due to storm-induced velocity wave action. The delineated flood hazard includes wave heights equal to or greater than three feet.

**LiMWA**  is the Limit of Moderate Wave Action, defined by FEMA as the 1.5-foot wave height line. Properties in Zone AE or VE may be affected by waves 1.5 feet or higher. Wave heights as small as 1.5 feet can cause significant damage to structures when constructed without consideration to the coastal hazards.

**BFE**  is the Base Flood Elevation, defined by FEMA as the computed elevation to which floodwater is anticipated to rise during the base flood (1-percent-annual-chance / 100-year flood).