

Appendix D-1  
Monroe and Wayne Counties, MI  
Discovery Report

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# Discovery Report

**Great Lakes Coastal Flood Study**

**Lake Erie**

**Monroe County and Wayne County, Michigan**

**Individual Discovery Report**

**Report Number 01**

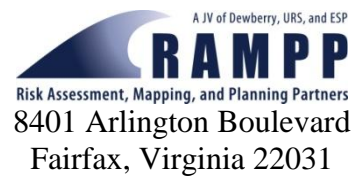
**March 2013**



**FEMA**

**Federal Emergency Management Agency  
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DATE SUBMITTED: March 2013

## ***Project Area Community List***

| <hr/> <b>Monroe County</b> <hr/> | <hr/> <b>Wayne County</b> <hr/> |
|----------------------------------|---------------------------------|
| Berlin, Charter Township of      | Brownstown, Charter Township of |
| Erie, Township of                | Dearborn, City of               |
| Estral Beach, Village of         | Detroit, City of                |
| Frenchtown, Charter Township of  | Ecorse, City of                 |
| La Salle, Township of            | Flat Rock, City of              |
| Luna Pier, City of               | Gibraltar, City of              |
| Monroe, City of                  | Grosse Ile, Township of         |
| Monroe, Charter Township of      | Lincoln Park, City of           |
| South Rockwood, Village of       | River Rouge, City of            |
|                                  | Melvindale, City of             |
|                                  | Riverview, City of              |
|                                  | Rockwood, City of               |
|                                  | Southgate, City of              |
|                                  | Trenton, City of                |
|                                  | Woodhaven, City of              |
|                                  | Wyandotte, City of              |

This list includes the communities within the Project Area covered by this report (Monroe and Wayne Counties, MI) for the Great Lakes Coastal Study under consideration for new Federal Emergency Management (FEMA) Agency Risk Mapping, Assessment and Planning (Risk MAP) products and datasets, which may include Flood Insurance Studies (FISs) and Flood Insurance Rate Maps (FIRMs). Not all communities will receive new and updated FEMA Risk MAP products and datasets or FISs and FIRMs.

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## Attachments

- Attachment A: Communications
- Attachment B: Data Collection
- Attachment C: Discovery Maps
- Attachment D: Discovery Meeting

|          |   |
|----------|---|
| AAL      | Average Annualized Loss   |
| BFE      | Base Flood Elevation  |
| CAV      | Community Assistance Visit  |
| CBRS     | Coastal Barrier Resources System                                  |
| CID      | Community Identification Number                                   |
| CIS      | Community Information System                                      |
| C-MAN    | Coastal Marine Automated Network                                  |
| CNMS     | Coordinated Needs Management Strategy                             |
| CO-OPS   | Center for Operational Oceanographic Products and Services        |
| CRS      | Community Rating System   |
| DFO      | Department of Fisheries and Oceans                                |
| FEMA     | Federal Emergency Management Agency                               |
| FIPS     | Federal Information Processing Standards                          |
| FIRM     | Flood Insurance Rate Map  |
| FIS      | Flood Insurance Study   |
| GIS      | Geographic Information System                                     |
| Hazus-MH | Multi-Hazard Risk Assessment and Loss Estimation Software Program |
| HUC8     | Hydrologic Unit Code 8  |
| HWM      | High Water Mark   |
| LOMA     | Letter of Map Amendment   |
| LOMC     | Letter of Map Change  |
| LOMR     | Letter of Map Revision  |
| LOMR-F   | Letter of Map Revision based on Fill                              |
| MLI      | Midterm Levee Inventory   |
| NDBC     | National Data Buoy Center   |
| NFIP     | National Flood Insurance Program                                  |
| NGDC     | National Geophysical Data Center                                  |
| NID      | National Inventory of Dams  |
| NOAA     | National Oceanic and Atmospheric Administration                   |
| PAL      | Provisionally Accredited Levee                                    |
| Risk MAP | Risk Mapping, Assessment, and Planning                            |
| SFHA     | Special Flood Hazard Area   |



## Acronyms and Abbreviations

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|       |   |
|-------|---|
| TCU   | Transportation, Communication and Utility |
| USACE | U.S. Army Corps of Engineers              |
| USGS  | U.S. Geological Survey                    |

### SECTION ONE DISCOVERY OVERVIEW

The Federal Emergency Management Agency (FEMA) Risk Mapping, Assessment, and Planning, or Risk MAP, program helps communities identify, assess, and reduce their flood risk. Through Risk MAP, FEMA provides information to enhance local mitigation plans, improve community outreach, and increase local resilience to floods.

During the Discovery phase of the Risk MAP project development, FEMA:

- Gathers information about local flood risk and flood hazards
- Reviews mitigation plans to understand local mitigation capabilities, hazard risk assessments, and current or future mitigation activities
- Supports communities within the coastal area to develop a vision for the future
- Collects information from communities about their flooding history, development plans, daily operations, and stormwater and floodplain management activities
- Uses all information gathered to determine which areas require mapping, risk assessment, or mitigation planning assistance through a Risk MAP project
- Develops the Discovery Map and Report that summarize and display the Discovery findings

#### 1.1 GREAT LAKES COASTAL FLOOD STUDY

FEMA has initiated a coastal analysis and mapping study to produce updated Flood Insurance Rate Maps (FIRMs) for coastal counties along the Great Lakes. The new coastal flood hazard analyses will utilize updated 1-percent-annual-chance (100-year) flood elevations obtained from a comprehensive storm surge study being developed by the U.S. Army Corps of Engineers (USACE).

An updated coastal flood study is needed to obtain a better estimate of coastal flood hazards on the Great Lakes. The current, effective FIRMs are outdated primarily because of the age of data and the coastal methodologies used in producing them. Major changes in National Flood Insurance Program (NFIP) policies and methodologies have been implemented since the effective dates of many Flood Insurance Studies (FIS) in the area, creating the need for an update that will reflect a more detailed and complete hazard determination.

The Great Lakes Coastal Flood Study includes a system-wide solution that provides a comprehensive analysis of storm and high water events within the Great Lakes Basin. This program is funded through the FEMA Risk MAP program. FEMA, USACE, the Association of State Floodplain Managers, State partners, and FEMA contractors will collaborate in updating the coastal methodology and flood maps. FEMA manages the NFIP, which is the cornerstone of the national strategy for preparing communities for flood-related disasters.

#### 1.2 PURPOSE OF GREAT LAKES DISCOVERY

The purpose of the Great Lakes Discovery is to update NFIP products to increase public awareness of short- and long-term lake level variations, storm events and associated storm surge and waves to improve community resiliencies related to flood losses (life, property, and business).

This Discovery Report discusses the communities potentially affected by coastal flooding in Monroe and Wayne Counties, MI, as shown in Figure 1 below.

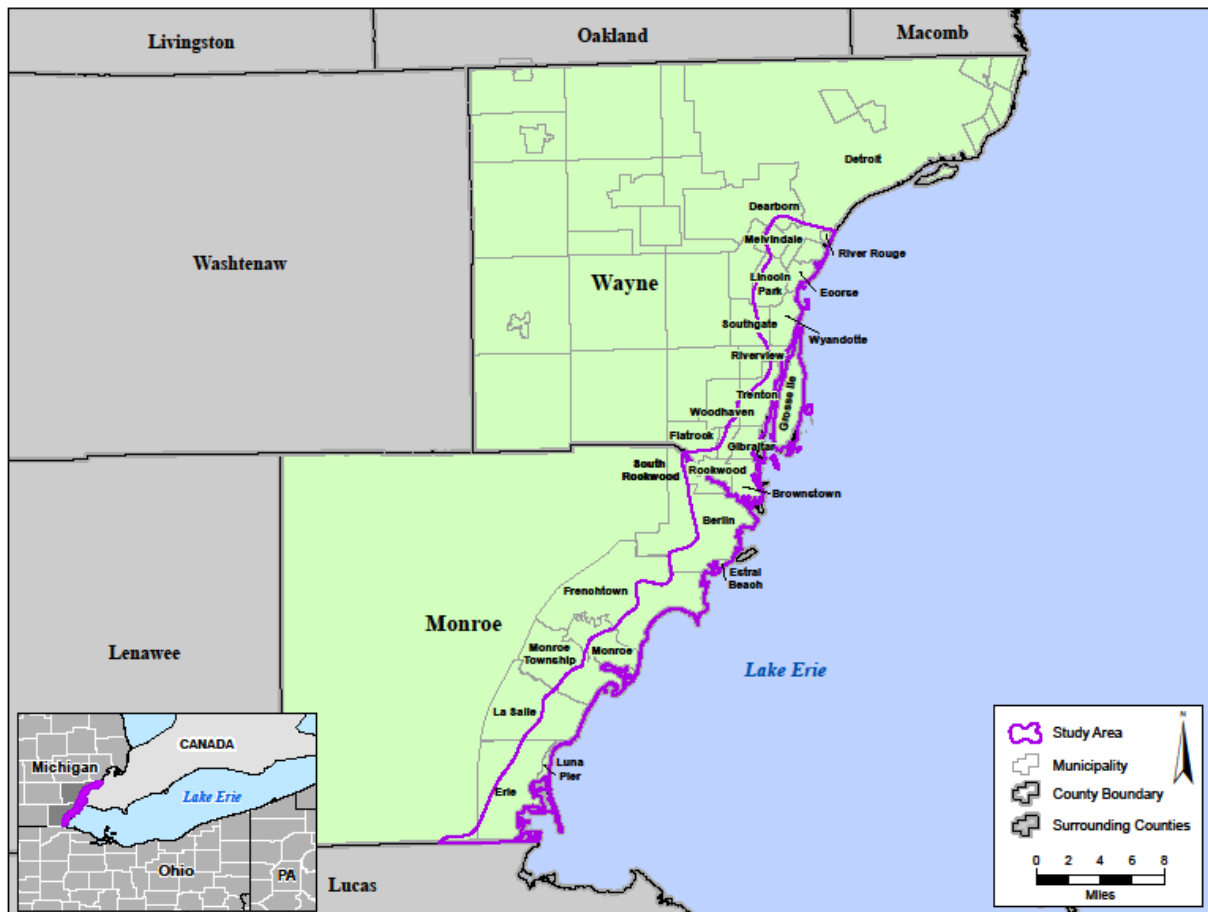


Figure 1: Project Area Map

### 1.3 COASTAL FLOOD RISK PRODUCTS

The Risk MAP Program will provide State and community officials with three flood risk products to help them gain a better understanding of flood risk and its potential impact on communities and individuals. These products will also enable communities to take proper mitigation actions to reduce this risk. The three products are:

- Flood Risk Report
- Flood Risk Map
- Flood Risk Database

These products will summarize information captured in the Flood Risk Datasets during a Flood Risk Study. The associated datasets could include regular and enhanced products:

- Changes Since Last FIRM
- Flood Depth and Analysis Grids
- Flood Risk Assessment Data
- Areas of Mitigation Interest
- Areas Affected by Increased Inundation
- Wave Hazard Severity Areas
- Coastal Wave Height Grid
- Erosion Risk Determination

## SECTION TWO GREAT LAKES OUTREACH STRATEGY

### 2.1 LAKE ERIE DISCOVERY STAKEHOLDER COORDINATION

To communicate effectively throughout the life of a possible Risk MAP project in this Great Lakes Coastal Flood Study, the use of email, telephone, and letters will be essential. A master list of stakeholders in the communities within the Project Area covered by this report (Monroe and Wayne Counties, MI) and is included in the Attachments. A total of 117 invitations were sent to stakeholders within Monroe and Wayne County portions of the Lake Erie Coastal Study project.

Representatives from the local governments, including cities, townships, and villages are considered fundamental stakeholders in this process because they have been elected or appointed to represent the interests of the residents of the Project Area. In addition to local governments, the county officials were invited to participate in the Discovery Meetings. See the Attachments for a complete list of the stakeholders invited to the Discovery Meetings.

**SECTION THREE SUMMARY OF DATA ANALYSIS**

During the Discovery portion of the Lake Erie Coastal Flood Study project, a massive amount of tabular and spatial data was collected for all communities from Federal and State sources, as well as through phone interviews and the Discovery Coastal Data Request forms sent to each community. Section 3 describes the types of data and their sources that the project team collected for the study area before the Discovery Meeting. The Data Analysis that follows Table 1 is divided into two sections: Section 3.1 describes the data that can be used for Risk MAP products and Section 3.2 describes the information that helped the study team form a better understanding of the Project Area.

**Table 1: Data Collected for Monroe and Wayne Counties, MI**

| <b>Data Types</b>                     | <b>Deliverable/Product</b> | <b>Source</b>  | <b>Date of Data Collection</b> | <b>Resolution</b> |
|---------------------------------------|----------------------------|--|--------------------------------|-------------------|
| Average Annualized Loss Data          | Discovery Map              | Federal Emergency Management Agency (FEMA)                     | April 2011*                    | Nationwide        |
| Census Blocks                         | Discovery Map              | U.S. Census Bureau   | Dec. 2011                      | Countywide        |
| Contacts                              | Discovery Report           | Local Community Web sites,<br>State/FEMA Updates               | Dec. 2011                      | Countywide        |
| Community Assistance Visits           | Discovery Report           | FEMA Community Information System (CIS)                        | Dec. 2011                      | Countywide        |
| Community Rating System               | Discovery Report           | FEMA's "Community Rating System Communities and Their Classes" | Dec. 2011                      | Nationwide        |
| Comprehensive Plans                   | Discovery Report           | Local Community Web sites                                      | Dec. 2011                      | Countywide        |
| Coastal Barrier Resources System      | Discovery Map              | U.S. Fish and Wildlife Service                                 | Nov. 2011*                     | Nationwide        |
| Coastal Construction                  | Discovery Map              | U.S. Army Corps of Engineers (USACE)                           | July 2012                      | Nationwide        |
| Coordinated Needs Management Strategy | Discovery Map              | FEMA   | July 2012                      | Countywide        |
| Critically Eroded Beach Areas         | Discovery Report           | Michigan Department of Environmental Quality                   | April 2012                     | Statewide         |
| Dams                                  | Discovery Report           | USACE National Inventory of Dams,<br>FIRM Database             | April 2012                     | Countywide        |
| Declared Disasters                    | Discovery Report           | FEMA's "Disaster Declarations Summary"                         | April 2012                     | Nationwide        |

## Summary of Data Analysis

| <b>Data Types</b>                                    | <b>Deliverable/Product</b> | <b>Source</b>  | <b>Date of Data Collection</b> | <b>Resolution</b> |
|--|----------------------------|--|--------------------------------|-------------------|
| Demographics, Industry                               | Discovery Report           | U.S. Census Bureau, Local Mitigation Plans   | April 2012                     | Countywide        |
| Effective Floodplains                                | Discovery Map              | FEMA Map Service Center and Mapping Information Platform   | April 2012                     | Countywide        |
| Flood Insurance Policies                             | Discovery Report           | FEMA CIS   | April 2012                     | Nationwide        |
| Hazards Mitigation Plans and Status                  | Discovery Report           | FEMA Mitigation Planning Report  | April 2012                     | Countywide        |
| Hazard Mitigation Assistance Program Grants Received | Discovery Report           | FEMA's "Hazard Mitigation Program Summary" Community Input   | April 2012                     | Nationwide        |
| Historical Flooding                                  | Discovery Report           | Effective Flood Insurance Study (FIS)  | April 2012                     | Countywide        |
| Historical Storm Events                              | Discovery Report           | Effective FIS  | April 2012                     | Countywide        |
| Individual/Public Assistance                         | Discovery Report           | FEMA's "Public Assistance Subgrantee Summary"  | April 2012                     | Nationwide        |
| Letter of Map Changes                                | Discovery Report           | FEMA's Mapping Information Platform  | April 2012                     | Countywide        |
| Meteorological Gages                                 | Discovery Map              | National Oceanic and Atmospheric Administration (NOAA) Great Lakes Environmental Research Laboratory | April 2012                     | Region-wide       |
| Mid-term Levee Inventory (MLI)                       | Discovery Report           | MLI database   | Nov. 2011*                     | Nationwide        |
| Ordinances   | Discovery Report           | Local Community Web sites  | April 2012                     | Countywide        |
| Repetitive Loss                                      | Discovery Report           | FEMA CIS   | April 2012                     | Countywide        |
| Shoreline Classification                             | Discovery Map              | USACE  | July 2012                      | Region-wide       |
| Stream Gages   | Discovery Map              | U.S. Geological Survey   | April 2012                     | Countywide        |
| Water Level Gages                                    | Discovery Map              | NOAA, Canadian Department of Fisheries and Oceans  | April 2012                     | Region-wide       |
| Wave Gages   | Discovery Map              | NOAA   | April 2012                     | Region-wide       |

\* Date of Data Release

### 3.1 DATA THAT CAN BE USED FOR FUTURE COASTAL FLOOD RISK PRODUCTS

During the Discovery process, the project team created a database of available flood hazard and flood risk assessment data. This database not only provides an inventory of available data, but helps identify gaps in the flood hazard data. State, county, and government geographic information system (GIS) Web sites can provide some of the pertinent data, but local knowledge of flooding and mitigation projects is critical to help accurately determine flood risks and mapping needs. Therefore, local and regional data were also used where available.

#### 3.1.1 Average Annualized Loss Data

The Average Annualized Loss (AAL) data are indicative of the dollar losses associated with a certain frequency of flood events within a county and are used to get a relative comparison of flood risk. They are determined by FEMA’s Multi-Hazard Risk Assessment and Loss Estimation Program, otherwise known as Hazus-MH. The current Hazus-MH analysis is based on approximate flood boundaries and national datasets. The calculation is based on flood elevation estimates using the 10-meter Digital Elevation Model on streams with drainage areas of at least 10 square miles. Additional information about the Hazus-MH process and tool can be found at <http://www.fema.gov/protecting-our-communities/hazus>.

The countywide results for Monroe and Wayne Counties were obtained from the report called “FEMA Hazus AAL Usability Analysis” dated April 13, 2011 (FEMA 2011a) and are shown in Table 2. AAL data summarized at the census block level are shown on the Discovery Maps.

**Table 2: Hazus AAL Data for Monroe and Wayne Counties, MI**

| FIPS  | County | Total<br>(in \$ K) | Building<br>(in \$ K) | Content<br>(in \$ K) |
|-------|--------|--------------------|-----------------------|----------------------|
| 26115 | Monroe | 42,049             | 18,711                | 21,943               |
| 26163 | Wayne  | 542,742            | 258,731               | 271,080              |

Source: FEMA HAZUS AAL Usability Analysis 2011a  
FIPS = Federal Information Processing Standards

#### 3.1.2 Bathymetry

Bathymetric data are available from the National Oceanic and Atmospheric Administration (NOAA) National Geophysical Data Center (NGDC) hydrographic surveys from 1942, 1948, 1974, and 1976, as well as NOAA Office of Coast Survey nautical charts. The NGDC (2012) data can be found at <http://www.csc.noaa.gov/topobathy/#> and <http://maps.ngdc.noaa.gov/viewers/bathymetry/>.

The nautical charts (NOAA 2012) can be found at <http://www.charts.noaa.gov/OnLineViewer/GreatLakesViewerTable.shtml>.

#### 3.1.3 Erosion Data

Coastal erosion is the recession of land and the removal of beach or dune sediments. It affects every beach and coast in the world, including those of Lake Erie. Important factors in coastal



erosion are the types of rock or soil being eroded, the presence or absence of beaches or human-made structures, and how the shore is oriented with respect to prevailing winds and waves, water levels, climatology, and groundwater and surface drainage.

According to the Critical Dune Area Maps maintained by the Michigan Department of Environmental Quality at [http://www.michigan.gov/deq/0,4561,7-135-3311\\_4114\\_4236-70207--,00.html](http://www.michigan.gov/deq/0,4561,7-135-3311_4114_4236-70207--,00.html), there are no critical dune areas in Monroe and Wayne Counties.

### **3.1.4 Federal Land**

Federal lands data were obtained from the National Atlas Web site (<http://www.nationalatlas.gov/mld/fedlanp.html>) (National Atlas of the United States 2006). The map layer shows lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the U.S. Department of Agriculture Forest Service, the Department of Defense, the U.S. Fish and Wildlife Service, the National Park Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included.

There are no Federal lands within Monroe and Wayne Counties.

### **3.1.5 Jurisdictional Boundaries**

Jurisdictional boundaries were obtained from the Monroe County (All Jurisdictions) FIRM database dated April 20, 2000 (FEMA 2000) and from the Wayne County (All Jurisdictions) FIRM database dated February 2, 2012 (FEMA 2012a).

### **3.1.6 Publicly Owned Land**

In Monroe County, the only State-owned land is the Wm. C. Sterling State Park on Lake Erie. At 1,300 acres, the park offers recreational opportunities to the general public.

There are no State-owned lands along the shoreline in Wayne County.

### **3.1.7 Shoreline Information**

The total shoreline along Monroe County is approximately 57.1 miles and 99.6 miles along Wayne County (including Belle Isle, Grosse Ile, and nearby islands).

The shoreline classification information was obtained from USACE Detroit District (USACE 2012). It summarizes the shoreline types, lands use, shoreline coverage, and vegetation types along the shoreline, as shown in Tables 3 through Table 6.

**Table 3: Summary of Shoreline Types**

| County | Total Shoreline (miles) | Shoreline Type               |                           |                                  |              |                                    |
|--------|-------------------------|------------------------------|---------------------------|----------------------------------|--------------|------------------------------------|
|        |                         | Artificial shoreline (miles) | Boulders, Bedrock (miles) | Cohesive Clays and Silts (miles) | Sand (miles) | Shingles, Pebbles, Cobbles (miles) |
| Monroe | 57.1                    | 38.9                         | -                         | -                                | 17.6         | 0.6                                |
| Wayne  | 99.6                    | 66.4                         | 8.7                       | -                                | 20.7         | 3.8                                |

Source: USACE 2012, Lake Erie Shoreline Classification

**Table 4: Summary of Shoreline by Land Uses**

| County | Total Shoreline (miles) | Shoreline by Land Use          |              |                |                                  |                                      |                                 |              |
|--------|-------------------------|--------------------------------|--------------|----------------|----------------------------------|--------------------------------------|---------------------------------|--------------|
|        |                         | Commercial /Industrial (miles) | Farm (miles) | Forest (miles) | High Density Residential (miles) | Moderate Density Residential (miles) | Low Density Residential (miles) | Park (miles) |
| Monroe | 57.1                    | 3.2                            | -            | 2.5            | 5.6                              | 16.3                                 | -                               | 29.4         |
| Wayne  | 99.6                    | 22.9                           | -            | -              | 20.6                             | 19.4                                 | -                               | 36.7         |

Source: USACE 2012, Lake Erie Shoreline Classification

**Table 5: Summary of Shoreline Coverage**

| County | Total Shoreline (miles) | Shoreline by Coverage     |                         |                          |                    |                               |                              |               |
|--------|-------------------------|---------------------------|-------------------------|--------------------------|--------------------|-------------------------------|------------------------------|---------------|
|        |                         | Bluff (2-10 feet) (miles) | Coastal Wetland (miles) | Dune (2-10 feet) (miles) | Flat Coast (miles) | High Bluff (>10 feet) (miles) | High Dune (>10 feet) (miles) | Other (miles) |
| Monroe | 57.1                    | -                         | 30.7                    | 0.1                      | 26.2               | -                             | -                            | -             |
| Wayne  | 99.6                    | -                         | 2.9                     | -                        | 96.7               | -                             | -                            | -             |

Source: USACE 2012, Lake Erie Shoreline Classification

**Table 6: Summary of Shoreline Vegetation Types**

| County | Total Shoreline (miles) | Shoreline by Vegetation Type         |  |                                     |                        |              |   |
|--------|-------------------------|--------------------------------------|--|-------------------------------------|------------------------|--------------|---|
|        |                         | High Density Shrubs or Trees (miles) | Moderate Density Shrubs or Trees (miles) | Low Density Shrubs or Trees (miles) | Manicured Lawn (miles) | None (miles) | Unmaintained Non-Woody Vegetation (miles) |
| Monroe | 57.1                    | 6.8                                  | 10.1                                     | 5.6                                 | 13.9                   | 2.5          | 18.1                                      |
| Wayne  | 99.6                    | 2.1                                  | 18.3                                     | 3.9                                 | 63.4                   | 10.2         | 1.6                                       |

Source: USACE 2012, Lake Erie Shoreline Classification

### 3.1.8 Stream Lines/Hydrographs

Stream line data were obtained from the Monroe County (All Jurisdictions) FIRM database dated April 20, 2000 (FEMA 2000) and from the Wayne County (All Jurisdictions) FIRM database dated February 2, 2012 (FEMA 2012a).

### 3.1.9 Topography

As part of the Great Lakes Coastal Flood Study, Light Detection and Ranging data were collected by the USACE to develop topographic and bathymetric data along the Lake Erie shoreline.

The topographic data are expected to become available during the spring of 2013 for the Lake Erie study area. The new topographic data may be used for the transect-based coastal flood hazard analysis as well as the mapping of the coastal flood risks. Existing high-resolution topographic data are currently available from the NOAA Coastal Service Center at <http://csc.noaa.gov>.

### 3.1.10 Transportation

Transportation data were obtained from the Monroe County (All Jurisdictions) FIRM database dated April 20, 2000 (FEMA 2000) and from the Wayne County (All Jurisdictions) FIRM database dated February 2, 2012 (FEMA 2012a).

### 3.1.11 Watershed Boundaries

The Watershed Boundary Dataset Hydrologic Unit Code 8 (HUC8) boundaries were obtained from the U.S. Department of Agriculture Natural Resources Conservation Service GeoSpatial Data Gateway Web site (<http://datagateway.nrcs.usda.gov/>).

Monroe County contains portions of five HUC8 watersheds: Lake Erie (04120200), Huron (04090005), Detroit (04090004), Raisin (04100002) and Ottawa-Stony (04100001).

Wayne County contains portions of five HUC8 watersheds: Lake St. Clair (04090002), Huron (04090005), Detroit (04090004), Clinton (040900003) and Ottawa-Stony (04100001).

## 3.2 OTHER DATA AND INFORMATION

Monroe County is located in southeastern Michigan. The County is bordered to the north by the Townships of Sumpter and Huron, to the northeast by the Cities of Flat Rock and Rockwood, to the south by the Cities of Toledo and Sylvania, Ohio, and to the west by the Village of Deerfield (see Discovery Maps in Attachment C).

There are a significant number of weather stations in the nearby area to adequately describe the climate of the County. The climate of the area is influenced by Lake Erie throughout most of the year. The average monthly temperature varies from 73 degrees Fahrenheit (°F) in the summer to 26 °F in the winter. The mean annual temperature is 50 °F. The average frost-free season extends from approximately May 7 to October 10 (FEMA 2000).

Precipitation is uniformly distributed throughout the year. The annual average precipitation is approximately 32 inches. Snowfall in the area averages approximately 34 inches annually (FEMA 2000).

The topography of the County is relatively flat. The soils, composed mainly of loam, silty clay, and clay, are somewhat poorly drained and subject to ponding. Because the topography consists of generally flat terrain, many streams are shallow and relatively wide, and flood to adjacent low lands during peak run-off periods (FEMA 2000).

A narrow boulder belt runs parallel to Lake Erie. Most of the deposits are relatively impermeable. Thus, runoff following periods of rain or snowmelt is greater than that normally experiences in the rest of the State (FEMA 2000).

Wayne County is located in the southeastern portion of the lower peninsula of Michigan and encompasses the City of Detroit. It is bordered on the north by Oakland and Macomb Counties; on the east by Lake St. Clair, the Detroit River, and Lake Erie; on the south by Monroe County; and on the west by Washtenaw County (see Discovery Maps in Attachment C). The County seat, the City of Detroit, is home to approximately 40 percent of the population of Wayne County. The major transportation arteries of Wayne County include Interstates 75, 94, 96, and 275; U.S. Highways 10 and 24; and Michigan Highways 12, 15, 14, and 24. The County is also served by Amtrak rail service, Detroit City Airport, Detroit Metropolitan Airport, and Willow Run Airport.

As with most of the State of Michigan, the climate of Wayne County is affected by the moderating influence of the Great Lakes. The heat storage capacity of the lakes tends to dampen climatic extremes and delay seasonal changes. Lake breezes can lower daily maximum temperatures by as much as 15 °F. The large urban industrial area of the County also affects the climate, by creating urban “heat islands.” The difference in minimum temperatures between urban and rural areas can exceed 10 °F under extreme conditions (FEMA 2012a).

There are approximately 27 different types of soil found in Wayne County. Large parts of the County, including nearly the entire eastern half, have industrial and urban development. Much of the soil in these areas has been disturbed by earthmoving activities or is covered by buildings, streets, or parking lots. In general, the soils in the eastern portion of the County and along the Detroit River and Lake Erie are of fine to moderately-course texture and are somewhat poorly to very poorly drained. The surface layer is generally loam, which overlies firm silty clay loam or firm clay. The western portion of the County is somewhat poorly drained. The surface is sandy loam and the subsoil ranges from fine sand to silty clay. In the extreme northwest, where the topography is gently to strongly sloped, the soils are moderately to well-drained loam underlain by firm clay (FEMA 2012a).

A layer of glacial drift ranging in thickness from a few feet to as much as 330 feet overlies the bedrock in Wayne County. These deposits cover all of the Detroit area except for a small outcrop of bedrock in the southeastern part. The glacial deposits are thinnest near the mouth of the Detroit River and, in general, thicken gradually toward the west and more rapidly toward the northwest. Most of the County lies on an old, relatively flat glacial lake plain. A series of sand and gravel ridges, some as high as 25 to 30 feet, rest on the clay plain. These hills and ridges formed beaches, terraces, and river deltas during the closing part of the glacial epoch. The northwest corner of the County is part of the down slope of the Irish Hills area, a glacial end moraine located to the west and northwest of the County that rises to a relative height of 500 to

600 feet above the level of the Detroit River and Lake Erie at the eastern boundary (FEMA 2012a).

Although large parts of Wayne County are industrial and urban, much of the western half of the County is still undeveloped. The City of Detroit is one of the largest industrial centers in the Midwest and is the headquarters for the U.S. auto industry. The economy is predominately service and sales oriented, accounting for approximately 65 percent of the jobs in the County, while approximately 20 percent of the jobs are in manufacturing. The predominant land use in Wayne County is residential, which accounted for approximately 42 percent of the land area in 2000. Cultivated and undeveloped land, including woodland, shrub, grassland, and wetland, accounts for approximately 26 percent; commercial and industrial land use account for approximately 19 percent (FEMA 2012a).

### 3.2.1 Coastal Barrier Resources System

Coastal barriers are unique land forms that protect distinct aquatic habitats and serve as the mainland's first line of defense against damage from coastal storms and erosion. The Coastal Barrier Resource System (CBRS) defines a coastal barrier as a landform composed of unconsolidated shifting sand or other sedimentary material that is generally long and narrow and entirely or almost entirely surrounded by water. They are sufficiently above normal tides so that they usually have dunes and terrestrial vegetation.

The CBRS boundaries were downloaded from U.S. Fish and Wildlife Service Web site ([http://www.fws.gov/CBRA/Maps/Data\\_Disclaimer\\_Shapefiles.html](http://www.fws.gov/CBRA/Maps/Data_Disclaimer_Shapefiles.html)).

Monroe County has a CBRS along the shoreline near Muddy Creek and Enrico Fermi Nuclear Power Plant.

Wayne County has a CBRS near Lake Erie Metropark.

The CBRS layer is shown on the Discovery Maps in Attachment C.

### 3.2.2 Coastal Zone Protection Structures

The USACE maintains a large infrastructure of over 900 coastal structures in the United States. The coastal structures protect harbors and shore-based infrastructure, provide beach and shoreline stability control, provide flood protection, and protect coastal communities, roadways and bridges. Coastal structures include seawalls, bulkheads, revetments, dikes and levees, breakwaters, groins, sills, perched beaches, and jetties and piers.

The coastal structure data were extracted from the Enterprise Coastal Inventory Database from the Engineer Research and Development Center and were provided through USACE Buffalo District on July 2012.

The USACE coastal structures in Monroe County are listed below.

#### ***Monroe County***

- Bolles Harbor Disposal Site Dike, MI
- Bolles Harbor Steel Sheetpile Wall, MI
- Bolles Harbor West Jetty, MI

There are no USACE coastal structures listed in Wayne County.

During a review of the USACE oblique imagery, an additional 750 coastal structures along the Lake Erie U.S. coastline were identified. Manmade coastal structures visible from a map scale of 1:1,500 to 1:3,000 were marked and inventoried. The coastal structures for Monroe and Wayne Counties are shown on the Discovery Maps.

### 3.2.3 Community Assistance Visits

Statewide Community Assistance Visits (CAVs) are part of the evaluation and review process FEMA and local officials use to ensure that each community adequately enforces local floodplain management regulations to remain in compliance with NFIP requirements. Generally, a CAV consists of a tour of the floodplain, an inspection of community permit files, and meetings with local appointed and elected officials. During a CAV, observations and investigations focus on identifying issues in various areas, such as the community's floodplain management regulations (ordinance), community administration and enforcement procedures, engineering or other issues with the FIRMs, and other problems in the community's floodplain management.

Any administrative problems or potential violations identified during a CAV are documented in the CAV findings report. The community is notified and given the opportunity to correct those administrative procedures and remedy the violations to the maximum extent possible within established deadlines. If a CAV is closed, then the issues brought up in the CAV have been adequately addressed by the community.

The summary reports of CAV findings were extracted from the FEMA Community Information System (CIS) (<https://portal.fema.gov/famsVuWeb/home>) on October 2, 2012.

The history of CAV activity in Monroe and Wayne Counties are summarized in Table 7. The information provided in this table includes both open CAVs and those that have already been addressed. The State and FEMA have conducted 13 CAVs in 5 coastal communities in Monroe County, and 22 CAVs in 12 coastal communities in Wayne County.

There are currently seven open CAVs in Monroe County. No CAV records were found for the Township of Erie, Township of Monroe, City of Monroe, and Village of South Rockwood in Monroe County.

In Wayne County, there are currently eight open CAVs. No CAV records were found for the City of Dearborn, City of Lincoln Park, City of Melvindale, and City of Wyandotte in Wayne County.

Table 7: Summary of CAV Findings in Monroe and Wayne Counties, MI

| County     | CID    | Community                       | CAV Date   | Ordinance | Enforcement | Engineering | Other Problems | Biennial | Program Problems | violations | Remedial Actions | CAV Closed* | Agency |
|------------|--------|---------------------------------|------------|-----------|-------------|-------------|----------------|----------|------------------|------------|------------------|-------------|--------|
| Monroe, MI | 260143 | Berlin, Charter Township Of     | 12/2/1998  | None      | Serious     | None        | Serious        | N        | N                | N          | N                | 1/19/2000   | State  |
|            |        |                                 | 12/13/2001 | None      | Minor       | None        | Minor          | N        | Y                | N          | N                | 12/10/2002  | State  |
|            |        |                                 | 2/10/2005  | None      | None        | None        | None           | -        | -                | Y          | -                | still open  | State  |
|            | 260261 | Estral Beach, Village Of        | 12/18/1992 | Serious   | Serious     | Minor       | Serious        | Y        | Y                | Y          | N                | 8/24/1995   | FEMA   |
|            |        |                                 | 9/30/2010  | Minor     | None        | None        | None           | -        | N                | Y          | -                | still open  | State  |
|            | 260146 | Frenchtown, Charter Township Of | 3/24/1995  | None      | None        | None        | None           | N        | N                | -          | -                | 4/6/1995    | State  |
|            |        |                                 | 2/20/2008  | None      | Serious     | None        | Serious        | N        | N                | Y          | -                | still open  | State  |
|            | 260148 | La Salle, Township Of           | 3/8/2011   | None      | Serious     | None        | Minor          | A        | A                | Y          | -                | still open  | FEMA   |
|            |        |                                 | 9/3/1993   | None      | None        | Minor       | None           | N        | N                | N          | N                | still open  | State  |
|            |        |                                 | 9/21/2011  | None      | Serious     | None        | None           | -        | N                | Y          | -                | still open  | State  |
|            | 260150 | Luna Pier, City Of              | 10/24/1997 | None      | None        | Minor       | None           | N        | N                | N          | N                | 12/30/1997  | State  |
|            |        |                                 | 9/13/2000  | None      | None        | Minor       | None           | N        | N                | Y          | Y                | 2/2/2001    | State  |
|            |        |                                 | 9/27/2004  | None      | None        | None        | None           | N        | Y                | N          |                  | State       |        |
| Wayne, MI  | 260218 | Brownstown, Charter Township    | 3/24/1998  | None      | None        | Minor       | None           | N        | N                | N          | N                | 5/1/1998    | State  |
|            |        |                                 | 8/7/2000   | None      | Minor       | None        | Minor          | Y        | N                | Y          | N                | 3/16/2002   | State  |
|            |        |                                 | 8/31/2005  | Serious   | Serious     | None        | Serious        | -        | -                | Y          | -                | still open  | State  |
|            | 260222 | Detroit, City Of                | 7/19/1999  | None      | None        | Minor       | None           | N        | N                | N          | N                | 1/21/1999   | State  |
|            | 260223 | Ecorse, City of                 | 9/15/2009  | None      | None        | None        | None           | -        | -                | -          | N                | still open  | State  |
|            | 260224 | Flat Rock, City of              | 1/29/1992  | None      | None        | Serious     | None           | N        | N                | N          | N                | still open  | State  |
|            |        |                                 | 4/26/2001  | None      | Minor       | Minor       | None           | N        | N                | -          | N                | 9/4/2001    | State  |
|            | 260226 | Gibraltar, City Of              | 3/28/2001  | None      | None        | Minor       | None           | N        | N                | N          | N                | 9/4/2001    | State  |

**Table 7: Summary of CAV Findings in Monroe and Wayne Counties, MI (Continued)**

| County    | CID    | Community               | CAV Date   | Ordinance | Enforcement | Engineering | Other Problems | Biennial | Program Problems | violations | Remedial Actions | CAV Closed* | Agency     |       |
|-----------|--------|-------------------------|------------|-----------|-------------|-------------|----------------|----------|------------------|------------|------------------|-------------|------------|-------|
| Wayne, MI |        |                         | 2/21/1991  | None      | None        | None        |                | N        | N                | N          | N                | 2/21/1991   | FEMA       |       |
|           | 260227 | Grosse Ile, Township Of | 6/2/1993   | Minor     | None        | None        | None           | N        | N                | N          | N                | still open  | State      |       |
|           |        |                         | 10/3/1999  | Minor     | None        | Minor       | None           | N        | N                | N          | N                | 1/21/2000   | State      |       |
|           |        |                         | 2/28/2007  | None      | None        | None        | None           | -        | N                | N          | N                | 4/30/2007   | State      |       |
|           | 260239 | River Rouge, City of    | 3/28/1995  | None      | None        | None        | None           | -        | N                | N          | -                | 5/9/1995    | State      |       |
|           |        |                         | 4/28/1995  | None      | None        | None        | None           | -        | N                | N          | -                | still open  | State      |       |
|           | 260240 | Riverview, City Of      | 10/29/2009 | None      | None        | None        | None           | -        | Y                | Y          | Y                | still open  | State      |       |
|           | 260241 | Rockwood, City Of       | 1/29/1992  | None      | None        | None        | None           | None     | N                | N          | N                | N           | still open | State |
|           |        |                         | 4/6/1998   | None      | Minor       | None        | None           | None     | N                | N          | Y                | Y           | 5/7/1998   | State |
|           | 260242 | Southgate, City of      | 03/16/1995 | None      | None        | None        | None           | None     | N                | -          | N                | -           | 5/10/1995  | State |
|           |        |                         | 04/16/1995 | None      | None        | None        | None           | None     | N                | -          | N                | -           | still open | State |
|           | 260244 | Trenton, City Of        | 10/3/1997  | None      | None        | None        | None           | None     | N                | N          | N                | N           | 5/11/1998  | State |
|           | 260730 | Woodhaven, City of      | 12/15/1992 | None      | Minor       | None        | None           | None     | N                | N          | N                | N           | 1/11/1993  | State |

CID = Community Identification

\* The issues brought up during a CAV have been adequately addressed before it is officially closed.



### 3.2.4 Community Rating System

The Community Rating System (CRS) is a voluntary incentive program to provide flood insurance premium discounts in NFIP-participating communities that take extra measures to manage floodplains above the minimum requirements. A point system is used to determine a CRS rating. The more measures a community takes to minimize or eliminate exposure to floods, the more CRS points are awarded and the higher the discount on flood insurance premiums.

The list of CRS communities is available on FEMA’s Web site at <http://www.fema.gov/library/viewRecord.do?id=3629>.

The City of Luna Pier in Monroe County and the City of Gibraltar in Wayne County participate in the CRS program. CRS class ratings for these communities are shown in Table 8. The rest of the communities in Monroe and Wayne Counties do not participate in the CRS program.

**Table 8: CRS Ratings for Monroe and Wayne Counties, MI**

| County | Community          | CID    | CRS Entry Date | Current Class | % Discount for SFHA | % Discount for Non-SFHA |
|--------|--------------------|--------|----------------|---------------|---------------------|-------------------------|
| Monroe | Luna Pier, City of | 260150 | 05/01/2002     | 8             | 10                  | 5                       |
| Wayne  | Gibraltar, City of | 260226 | 10/01/1992     | 8             | 10                  | 5                       |

CID = Community Identification

### 3.2.5 Comprehensive Plans

A comprehensive plan is a document that provides the framework and policy direction for land use decisions. Comprehensive plans usually include chapters detailing policy direction affecting land use, transportation, housing capital facilities, utilities, coastal and rural areas.

Comprehensive plans identify where and how growth needs will be met.

Table 9 summarizes the status of current comprehensive plans in Monroe and Wayne Counties.

**Table 9: Summary of Comprehensive Plans for Monroe and Wayne Counties, MI**

| Participating Jurisdiction | Comprehensive Plan Status       | Web site  |
|----------------------------|---------------------------------|---|
| Monroe County              | Original 1985, Updated 2010     | <a href="http://www.co.monroe.mi.us/government/departments_offices/planning_department_and_commission/monroe_county_comprehensive_plan.html">http://www.co.monroe.mi.us/government/departments_offices/planning_department_and_commission/monroe_county_comprehensive_plan.html</a>                                       |
| City of Detroit            | Original 1992 Revised July 2009 | <a href="http://www.detroitmi.gov/Departments/PlanningDevelopmentDepartment/Planning/LongRangeandCommunityPlanning/2004MasterPlanDraft/tabid/2055/Default.aspx">http://www.detroitmi.gov/Departments/PlanningDevelopmentDepartment/Planning/LongRangeandCommunityPlanning/2004MasterPlanDraft/tabid/2055/Default.aspx</a> |

In Monroe County, comprehensive plans were not found for the Charter Township of Berlin, the Township of Erie, the Village of Estral Beach, the Charter Township of Frenchtown, the Township of La Salle, The City of Monroe, the Charter Township of Monroe and the Village of South Rockwood. In Wayne County, comprehensive plans were not found for the Charter Township of Brownstown, the City of Dearborn, the City of Ecourse, the City of Flat Rock, the City of Gibraltar, the Township of Grosse Ile, The City of Lincoln Park, the City of Melvindale,

the City of River Rouge, The City of Rockwood, the City of Southgate, the City of Trenton, the City of Woodhaven and the City of Wyandotte.

The Monroe County Comprehensive Plan 2010 Update (Monroe County Planning Commission 2009) addresses the land use and infrastructure issues and projects 20 years into the future to show the recommendation for the physical development of the County. It contains the recommendations for agricultural preservation, industrial and economic development, open space, and natural resource protection, community facilities, and services, transportation and infrastructure development. The plan recognizes that the Great Lakes shoreline provides opportunities for recreation and habitat, industrial development, and tourism, while presenting flooding concerns.

In the comprehensive plan, the County set forth the goals and objectives for land use, natural resources, recreation and open space, future land use plan, etc. These are seen as the guiding principles for future land use decisions, development of public works improvements, preservation of open space and natural resources, and the overall growth and development of the community.

The plan's goal for natural resources is to protect the public health and to provide for productive natural habitat, proper ecological functions, and recreational, economic and aesthetic values. This includes objectives such as:

- Continue to review and comment on Michigan Department of Environmental Quality and Army Corps joint applications for the filling of wetlands and flood zones
- Encourage land use practices that preserve natural areas as an integral part of larger developments
- Develop a method of prioritizing the value of natural areas and encourage the public acquisition or long term preservation of particularly valuable or unique resources
- Expand watershed-based planning activities to include the other waterways that drain into Lake Erie, including Plum Creek, Stony Creek, Swan Creek, Halfway Creek, etc.
- Encourage the use of stream buffers, agricultural programs (conservation tillage, manure management, pesticide procedures), stream channel improvements, rain gardens, and innovative storm water management practices

In addition, the Monroe County Planning Department prepared Monroe County Coastal Zone Management Plan in 2008 in accordance with the provisions of the Federal Coastal Zone Management Act of 1972 (P.S. 92-583) and the State of Michigan's Coastal Zone Management program.

Wayne County: No comprehensive plan was found before the Discovery Meeting. The communities will be asked during the Discovery Meeting.

The City of Detroit Master Plan of Policies (Detroit City Council 2009) was originally adopted in 1992 and revised in 2009. The document has been amended to accommodate changing land use policies such as development of casinos, redevelopment of the riverfront, and retail development along the city's major thoroughfares. Other recent trends have not resulted in amendments but still have an impact on the development priorities of the City. These trends

include the revitalization of neighborhood commercial thoroughfares, redevelopment of residential areas, and the pursuit of improvements to the City’s transportation system.

The revised Master Plan of Policies recognizes recent commercial and retail development trends with new commercial land use categories. The new categories include designations for pedestrian oriented commercial areas and “big-box” retail centers.

Land use categories were also expanded to included designation of mixed-use areas. These categories recognize the development patterns of older urban areas. The City’s older areas have not been developed with strict development guidelines, often resulting in a mix of land uses. The mix of land uses is also because of recent efforts to introduce residential lofts into the City’s Central Business District or obsolete industrial sites.

The introduction of new transportation categories recognizes the important relationship among transportation, the environment, and land use. The plan designates routes for regional mass transit and non-motorized transportation routes.

**3.2.6 Coordinated Needs Management Strategy and NFIP Mapping Needs**

FEMA’s Coordinated Needs Management Strategy (CNMS) was initiated through FEMA’s Risk MAP program in 2009. The CNMS is a FEMA initiative to update the way FEMA organizes, stores, and analyzes flood hazard mapping needs information for communities. The CNMS is only for riverine studies at this time. There are three classifications within the CNMS: “Valid,” “Unverified,” and “Unknown.” New and updated studies (those with new hydrologic and hydraulic models) performed during the Map Modernization program were automatically determined to be “Valid” and the remaining studies went through a 17 element validation process with 7 critical and 10 secondary elements. A stream study has to pass all of the critical elements and at least seven secondary elements to be classified as “Valid.” Studies that have a strong indication of change that may impact the delineation of the flood hazard or flood elevation (but warrant further analysis to validate the change) are classified as “Unverified.” Streams with a status of “Unknown” are those that have a study underway, will be evaluated in the future or do not have sufficient information to determine if they are “Valid” or “Unverified” (FEMA 2012a).

Table 10 summarizes the draft results of the validation analysis obtained from the CNMS in July 2012.

**Table 10: CNMS Status for Monroe and Wayne Counties, MI**

| County | FIPS  | Stream Mileage |         |            | Total |
|--------|-------|----------------|---------|------------|-------|
|        |       | Valid          | Unknown | Unverified |       |
| Monroe | 26115 | 346.1          | N/A     | 25.3       | 371.4 |
| Wayne  | 26163 | 271.5          | 5.8     | 97.5       | 374.8 |

FIPS = Federal Information Processing Standards

**3.2.7 Critical Facilities**

Critical facilities are those entities that are essential to the health and welfare of the community, such as 911 and emergency service facilities, airports, colleges and universities, schools, fire

departments, police departments, sewage treatment plants, hospitals and nursing homes, and local government.

According to the Wayne County Hazard Mitigation Plan (2006), there are 35 fire departments located within the County. Other critical assets identified in the plan include commercial sites, hospitals/response facilities, industrial sites, open space, public facilities, residential areas, roads, railroads, bridges, utility facilities, schools, churches, sports/entertainment arenas, and central business district.

The Enrico Fermi II Nuclear Power Plant is located in the Frenchtown Charter Township in Monroe County, MI. This location is shown on the Discovery Map. No other critical facilities data were found prior to the Discovery Meeting. Communities were asked to provide these data during the Discovery Meeting, but no additional data were provided.

### 3.2.8 Critically Eroded Beaches and Beach Nourishment/Dune Replacement Projects

Coastal erosion is the recession of land and the removal of beach or dune sediments. It affects every beach and coast in the world, including those of the Lake Erie. Important factors in coastal erosion are the types of rock or soil being eroded, the presence or absence of beaches or human-made structures, how the shore is oriented with respect to prevailing winds and waves, water levels, climatology, and groundwater and surface drainage.

According to the Critical Dune Area Maps maintained by the Michigan Department of Environmental Quality at [http://www.michigan.gov/deq/0,4561,7-135-3311\\_4114\\_4236-70207--00.html](http://www.michigan.gov/deq/0,4561,7-135-3311_4114_4236-70207--00.html), there are no critical dune areas in Monroe and Wayne Counties.

### 3.2.9 Dams

The National Inventory of Dams (NID) is a congressionally authorized database that documents dams in the United States and its territories. The current NID, published in 2010, includes information on 84,000 dams that are more than 25 feet high, hold more than 50 acre-feet of water, or are considered a significant hazard if they fail. The NID is maintained and published by the USACE, in cooperation with the Association of State Dam Safety Officials, the States and territories, and Federal dam-regulating agencies. The database contains information about the dams' locations, sizes, purposes, types, last inspections, regulatory facts, and other technical data. The information contained in the NID is updated approximately every 2 years.

The NID is available at USACE Web site <https://nid.usace.army.mil/>.

As indicated in Table 11, the NID shows 5 dams in Monroe County and 11 in Wayne County. Two dams in Monroe County and seven in Wayne County have Emergency Action Plans. The locations of the dams are shown on the Discovery Maps.

**Table 11: Summary of Dams in Wayne and Monroe Counties, MI**

| FIPS  | County | Number of Dams within County | Number of Dams with Emergency Action Plans | Number of Dams within Project Area |
|-------|--------|------------------------------|--|------------------------------------|
| 26115 | Monroe | 5                            | 2  | 2                                  |
| 26163 | Wayne  | 11                           | 7  | 0                                  |

### 3.2.10 Declared Disasters

The FEMA Disaster Declarations Summary is a summarized dataset describing all federally declared disasters. This information begins with the first disaster declaration in 1953 and features all three disaster declaration types: major disaster, emergency and fire management assistance. The dataset includes declared recovery programs and geographic areas (County data not available before 1964).

The list of FEMA’s disaster declarations is available on the FEMA Web site at <http://www.fema.gov/data-feeds> (FEMA 2012d).

Table 12 lists the major disaster declarations that have been declared in Monroe and Wayne Counties.

**Table 12: Declared Disasters in Monroe and Wayne Counties, MI**

| Disaster Number      | Declaration Date | Disaster Type | Incident Type   | Description                                  |
|----------------------|------------------|---------------|-----------------|--|
| <b>Monroe County</b> |                  |               |                 |  |
| 190                  | 4/14/1965        | DR            | Tornado         | Tornadoes and Severe Storms                  |
| 363                  | 12/1/1972        | DR            | Flood           | Severe Storms and Flooding                   |
| 371                  | 4/12/1973        | DR            | Flood           | Severe Storms and Flooding                   |
| 3057                 | 1/27/1978        | EM            | Snow            | Blizzards and Snowstorms                     |
| 654                  | 3/29/1982        | DR            | Flood           | Flooding                                     |
| 3137                 | 1/27/1999        | EM            | Snow            | MI - Severe Weather 1/2/99                   |
| 3189                 | 9/23/2003        | EM            | Other           | Power Outage                                 |
| <b>Wayne County</b>  |                  |               |                 |  |
| 363                  | 12/1/1972        | DR            | Flood           | Severe Storms and Flooding                   |
| 371                  | 4/12/1973        | DR            | Flood           | Severe Storms and Flooding                   |
| 495                  | 3/19/1976        | DR            | Severe Storm(s) | Severe Storms, Tornadoes, Icing and Flooding |
| 3057                 | 1/27/1978        | EM            | Snow            | Blizzards and Snowstorms                     |
| 631                  | 9/8/1980         | DR            | Flood           | Severe Storms and Flooding                   |
| 1181                 | 7/11/1997        | DR            | Severe Storm(s) | Severe Storms, Tornadoes, and Flooding       |
| 1237                 | 8/5/1998         | DR            | Severe Storm(s) | Severe Storms and High Winds                 |
| 3137                 | 1/27/1999        | EM            | Snow            | MI - Severe Weather 1/2/99                   |
| 1346                 | 10/17/2000       | DR            | Severe Storm(s) | Severe Storms And Flooding                   |
| 3189                 | 9/23/2003        | EM            | Other           | Power Outage                                 |
| 1527                 | 6/30/2004        | DR            | Severe Storm(s) | Severe Storms, Tornadoes, And Flooding       |

Major Disaster = DR

Emergency = EM

### 3.2.11 Flood Insurance Policies

A community's agreement to adopt and enforce floodplain management ordinances, particularly with respect to new construction, is an important element in making flood insurance available to home and business owners. For this Discovery project, data on flood insurance policies were also gathered.

Table 13 summarizes the number of insurance policies, their premiums, the numbers and dollar amounts of paid losses, and the numbers of substantial damage in Monroe and Wayne Counties. The data were based on CAV Community Summary Reports that were extracted from FEMA Community Information System (<https://portal.fema.gov/famsVuWeb/home>) on December 21, 2011.

Data from the coastal influenced communities are listed in Table 13.

**Table 13: Summary of Flood Insurance Policies and Claims in Monroe and Wayne Counties, MI**

| Community                       | CID    | Total Number of Policies | Total Premiums (\$) | Insurance in Force (\$) | Total Number of Closed Paid Losses | Closed Paid Losses (\$) | Number of Substantial Damage Closed Paid Losses |
|---------------------------------|--------|--------------------------|---------------------|-------------------------|------------------------------------|-------------------------|---|
| <b>Monroe County</b>            |        |                          |                     |                         |                                    |                         |   |
| Berlin, Charter Township of     | 260143 | 137                      | \$113,809           | \$23,508,90             | 72                                 | \$267,059.02            | 1   |
| Erie, Township of               | 260145 | 164                      | \$135,226           | \$23,016,200            | 200                                | \$746,894.22            | 6   |
| Estral Beach, Village of        | 260261 | 115                      | \$85,250            | \$18,632,600            | 45                                 | \$175,823.42            | 0   |
| Frenchtown, Charter Township of | 260146 | 611                      | \$495,642           | \$88,507,500            | 231                                | \$1,097,123.11          | 9   |
| La Salle, Township of           | 260148 | 147                      | \$137,918           | \$28,882,700            | 204                                | \$1,109,401.15          | 3   |
| Luna Pier, City of              | 260150 | 333                      | \$229,213           | \$48,916,700            | 202                                | 1,102,115.23            | 5   |
| Monroe, City of                 | 260153 | 280                      | \$290,786           | \$40,259,700            | 55                                 | \$212,097.10            | 1   |
| Monroe, Charter Township of     | 260154 | 304                      | \$259,293           | \$48,218,300            | 120                                | \$772,171.10            | 6   |
| South Rockwood, Village of      | 260320 | 61                       | \$55,074            | \$9,745,500             | 2                                  | \$8,745.60              | 3   |
| <b>Wayne County</b>             |        |                          |                     |                         |                                    |                         |   |
| Brownstown, Charter Township of | 260218 | 228                      | \$191,559           | \$41,169,900            | 50                                 | \$200,360.16            | 1   |
| Dearborn, City of               | 260220 | 155                      | \$124,606           | \$21,587,900            | 24                                 | \$46,119.40             | 0   |
| Detroit, City of                | 260222 | 143                      | \$82,645            | \$26,665,900            | 89                                 | \$313,011.01            | 2   |
| Ecorse, City of                 | 260223 | 17                       | \$10,256            | \$2,992,800             | 1                                  | \$6,363.13              | 0   |
| Flat Rock, City of              | 260224 | 206                      | \$210,475           | \$30,963,300            | 4                                  | \$16,701.48             | 5   |
| Gibraltar, City of              | 260226 | 491                      | \$414,740           | \$77,240,100            | 432                                | \$1,812,971.16          | 6   |

## Summary of Data Analysis

| Community               | CID    | Total Number of Policies | Total Premiums (\$) | Insurance in Force (\$) | Total Number of Closed Paid Losses | Closed Paid Losses (\$) | Number of Substantial Damage Closed Paid Losses |
|-------------------------|--------|--------------------------|---------------------|-------------------------|------------------------------------|-------------------------|---|
| Grosse Ile, Township of | 260227 | 103                      | \$121,094           | \$25,031,700            | 29                                 | \$129,993.17            | 0   |
| Lincoln Park, City of   | 260234 | 91                       | \$85,360            | \$11,315,500            | 13                                 | \$54,409.39             | 2   |
| Melvindale, City of*    | 260310 | -                        | -                   | -                       | -                                  | -                       | -   |
| River Rouge, City of    | 260239 | 0                        | \$0                 | \$0                     | 3                                  | \$378                   |   |
| Riverview, City of      | 260240 | 14                       | \$21,543            | \$3,075,400             | 3                                  | \$0                     | 0   |
| Rockwood, City of       | 260241 | 77                       | \$82,021            | \$13,174,000            | 20                                 | \$103,241.93            | 0   |
| Southgate, City of      | 260242 | 4                        | \$3,219             | \$1,497,900             | 0                                  | 0                       | 0   |
| Trenton, City of        | 260244 | 170                      | \$102,504           | \$18,970,200            | 17                                 | \$67,819.69             | 0   |
| Woodhaven, City of      | 260730 | 129                      | \$135,036           | \$26,149,200            | 4                                  | 0                       | 0   |
| Wyandotte, City of      | 260246 | 56                       | \$47,029            | \$10,619,100            | 18                                 | \$105,574.72            | 1   |

\* City of Melvindale does not participate in the NFIP

CID = Community Identification

### 3.2.12 Gage Data

#### 3.2.12.1 Meteorological Stations

The National Data Buoy Center (NDBC) is a part of the NOAA National Weather Service. The NDBC designs, develops, operates, and maintains a network of data collecting buoys and coastal stations. NDBC provides hourly observations from a network of about 90 buoys and 60 Coastal Marine Automated Network (C-MAN) stations located nationally to measure wind speed, direction, and gust; atmospheric pressure; and air temperature. Water level is measured at selected stations. The historical and current data are available at the NDBC Web site <http://www.ndbc.noaa.gov/>.

In addition, NOAA's Great Lakes Environmental Research Laboratory focuses on the Great Lakes. It maintains multiple datasets, including a collection of meteorological data in both the United States and Canada. The datasets can be found online at:

<http://www.glerl.noaa.gov/ifyle/data/Station/Station.php?sta=All&year=All>.

Table 14 shows the meteorological station identification number and location for the gages in the Lake Erie Coastal Flood Study area in Monroe and Wayne Counties, MI. The station locations are shown on the Discovery Maps.

**Table 14: Meteorological Stations in Monroe and Wayne Counties, MI**

| Station ID | Location               | Owner   | Data                       | Years of Historical Data |
|------------|------------------------|---|----------------------------|--------------------------|
| DET        | Detroit City AP, MI    | Great Lakes Environmental Research Laboratory | Meteorological Observation | 1948–2007                |
| DTW        | Detroit Metro AP, MI   | Great Lakes Environmental Research Laboratory | Meteorological Observation | 1982–2007                |
| ONZ        | Detroit/Grosse Ile, MI | Great Lakes Environmental Research Laboratory | Meteorological Observation | 1999–2007                |
| TTF        | Monroe, MI             | Great Lakes Environmental Research Laboratory | Meteorological Observation | 1999–2007                |

### 3.2.12.2 Stream Gages

The U.S. Geological Survey (USGS) National Water Information System Web Interface (<http://waterdata.usgs.gov/nwis>) provides real-time data for any given stream gage location. Table 15 shows the gage identification numbers and locations for the gages in Monroe and Wayne Counties. USGS stream gage locations are also shown on the Discovery Maps.

**Table 15: Stream Gage Stations in Monroe and Wayne Counties, MI**

| County   | Gage ID              | Begin Date | End Date                        | Gage Location                                   |
|----------|----------------------|------------|---------------------------------|---|
| Monroe   | 4175340*             | 01/01/1970 | 10/19/1981                      | Stony Creek at Oakville, MI                     |
|          | 4176500*             | 09/01/1937 | Current                         | River Raisin near Monroe, MI                    |
|          | 4176605 <sup>†</sup> | 10/01/1987 | 09/30/2011                      | Otter Creek at La Salle, MI                     |
| Wayne    | 4165700*             | 10/01/1976 | 09/30/1977                      | Detroit River at Detroit, MI                    |
|          | 4166470*             | 10/01/1997 | 10/31/2010                      | Upper River Rouge at Detroit, MI                |
|          | 4166500*             | 10/01/1930 | Current                         | River Rouge at Detroit, MI                      |
|          | 4167000*             | 10/01/1930 | Current                         | Middle River Rouge near Garden City, MI         |
|          | 4167150*             | 10/01/1997 | 10/31/2011                      | Middle River Rouge at Dearborn Heights, MI      |
|          | 4168000*             | 06/01/1947 | Current                         | Lower River Rouge at Inkster, MI                |
|          | 4168400*             | 10/01/1997 | 10/31/2008                      | Lower River Rouge at Dearborn, MI               |
|          | 4168500*             | 10/01/1930 | 09/30/1933                      | Lower River Rouge at S Brady Rd at Dearborn, MI |
| 4174950* | 04/04/1986           | 09/30/1997 | Willow Run near Rawsonville, MI |   |

\*Gage expected to be outside of the storm surge inundation area.

<sup>†</sup>Gage affected by tide, but expected to be outside of the storm surge inundation area.



**3.2.12.3 Water Level Station**

NOAA’s Center for Operational Oceanographic Products and Services (CO-OPS) maintains several water level stations in the Lake Erie area. CO-OPS’ primary mission is the collection and dissemination of high-quality and accurate measurements of lake levels for scientific studies.

Table 16 shows the water level gage station ID and location for the gage in Monroe and Wayne Counties. The station location is shown on the Discovery Maps.

The station information and water level data are available at NOAA CO-OPS’ Web site: [http://tidesandcurrents.noaa.gov/station\\_retrieve.shtml?type=Great Lakes Water Level Data&state=Lake+Erie&id1=841](http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Great+Lakes+Water+Level+Data&state=Lake+Erie&id1=841).

**Table 16: Water Level Stations in Monroe and Wayne Counties, MI**

| Station ID | Location              | Data                | Year of Establishment |
|------------|-----------------------|---------------------|-----------------------|
| 9063090    | Fermi Power Plant, MI | Primary Water Level | 1970                  |

In addition, six gages are located along the Canadian shoreline of Lake Erie. They are maintained by the Canadian Department of Fisheries and Oceans (DFO), Marine Environmental Data Service and are listed in Table 17. The data are available at the DFO Web site: <http://www.meds-sdmm.dfo-mpo.gc.ca/isdm-gdsi/twl-mne/index-eng.htm>.

**Table 17: Water Level Stations in Lake Erie along Canadian Shoreline**

| Station ID | Location          | Data                | Year of Establishment |
|------------|-------------------|---------------------|-----------------------|
| 12005      | Bar Point, ON     | Primary Water Level | 1966                  |
| 12065      | Kingsville, ON    | Primary Water Level | 1962                  |
| 12250      | Erieau, ON        | Primary Water Level | 1962                  |
| 12400      | Port Stanley, ON  | Primary Water Level | 1927                  |
| 12710      | Port Dover, ON    | Primary Water Level | 1962                  |
| 12865      | Port Colborne, ON | Primary Water Level | 1962                  |

Monthly water level data are available for multiple gages dating back to the 1860s, and the USACE Detroit District has monthly Great Lakes water levels and connecting channel outflows records dating back to 1918. The connecting channel outflows include Chicago Diversion, Detroit River, Long LAC Diversion, New York State Barge Canal, Niagara River, Ogoki Diversion, St. Clair River, St. Lawrence River, St. Marys River, and Welland Canal.

The monthly high- and low-water level data from the year 1918 to 2011 at Lake Erie are available at the USACE Web site: <http://www.lre.usace.army.mil/greatlakes/hh/greatlakeswaterlevels/>.

The Great Lakes Water Levels Report provides daily mean water levels of Lake Erie for the past 3 months. The data are available at the USACE Web site:

<http://www.lre.usace.army.mil/greatlakes/hh/greatlakeswaterlevels/currentconditions/greatlakeswaterlevels/>.

### 3.2.12.4 Wave Gage/Buoy Stations

In addition to standard meteorological observation, all buoy stations and some C-MAN stations measure sea surface temperature and wave height and period. Conductivity and water current are measured at selected stations. The historical and current wave gage data are available at the NDBC Web site <http://www.ndbc.noaa.gov/>.

Table 18 shows the wave station identification number and location for the gages in the Lake Erie area. The station locations are shown on the Discovery Map.

**Table 18: Wave Stations in Lake Erie**

| Station ID | Location                               | Owner                     | Data                                      | Years of Historical Data |
|------------|--|---------------------------|---|--------------------------|
| 45005      | W ERIE 28NM Northwest of Cleveland, OH | National Data Buoy Center | Wave Height<br>Meteorological Observation | 1980–Present             |
| 45132      | Port Stanley                           | Environment Canada        | Wave Height<br>Meteorological Observation | 1989–Present             |
| 45142      | Port Colborne                          | Environment Canada        | Wave Height<br>Meteorological Observation | 1994–Present             |

### 3.2.13 High Water Marks

No coastal High Water Mark (HWM) data were available from the USGS or USACE before the Discovery Meeting. Communities were asked about coastal HWMs during the Discovery Meeting; however, they did not have any data to provide.

### 3.2.14 Historical Flooding

**Monroe County:** The Lake Erie shoreline in Monroe County is subject to significant flooding and erosion caused by inundation and wind-generated waves. In April 1973, a major storm caused an estimated \$20 million in damage to residential and commercial properties. This storm resulted in a recorded instantaneous high-water level of 578.17 feet (National Geodetic Vertical Datum of 1929) at Toledo, OH, gage. This level represents an estimate flood occurrence interval of approximately 100 years, based on the USACE report (USACE 1988). Approximately 140 houses were inundated in the Charter Township of Berlin and 400 homes in the City of Luna Pier due to the storm. Another storm, which caused considerable damage along the Lake Erie, occurred in June 1973 (FEMA 2000).

The Township of Erie is greatly affected by the surface level of Lake Erie. The most severe flood occurred on November 14, 1972, causing evacuations along the Lake Erie that resulted in the declaration of Erie as a Federal Disaster Area. The riverine flooding problems in the area are due to the lack of storage, flat overbanks, and impermeability of the soil and bedrock. All portion of

the community’s shoreline are quite susceptible to lake flooding. Shoreline erosion is not as much of a problem as in nearby communities because of the natural breakwater effect of the Woodtick Peninsula (FEMA 2000).

In the Charter Township of Frenchtown, the Charter Township of Monroe, the Township of La Salle and the City of Monroe, the principal area of flooding is near Lake Erie. High lake levels, resulting for consecutive years of above normal precipitation, accompanied by strong wind, can cause flooding up to 1.5 miles inland. Lake Erie reached record high levels and caused major flooding in 1972 and 1973. In the Charter Townships of Frenchtown and Monroe, ice jams on the River Raisin cause most of the major flooding of areas adjacent to the river, particularly when the lake level is high. In the Charter Township of Monroe, periodic flooding occurs in low-lying areas adjacent to the River Raisin and Plum Creek as a result of ice jams (FEMA 2000).

Wayne County: For the portion of Wayne County that borders the Detroit River, Lake Erie, and Lake St. Clair, a combination of high lake and river levels along with easterly winds produce conditions favorable for flooding. Historically, the most damaging floods have occurred as a result of this combination. Severe flooding occurred along this shoreline in 1954, 1973, 1985, and 1986. Storms on March 31, 1985, and April 4 and 6, 1985, along with high easterly and northeasterly winds, drove the already high waters of Lake Erie and Lake St. Clair on shore, inundating several communities along the shoreline. This included portions of the Charter Township of Brownstown; the Cities of Ecorse, Gibraltar, Grosse Pointe, and Grosse Pointe Park; the Township of Grosse Ile; and the extreme northeastern portion of the City of Detroit (FEMA 2012a).

Some of the worst recorded flooding damage occurred in 1985 when water flowed through gaps in dikes that were built by the USACE under Operation Foresight in 1973 and 1974. In many locations, these dikes were lowered or removed by individual residents in the late 1970s to facilitate access to Lake Erie. The storms on March 31, 1985, and April 4 and 6, 1985, collectively caused about \$2 million in damages in Wayne County, with approximately 1,300 homes reporting flood damages (FEMA 2012a).

### 3.2.15 Land Use

Table 19 lists the latest land use data for Monroe and Wayne Counties.

**Table 19: Summary of Land Use in Monroe and Wayne Counties, MI**

| County | Area (Square Miles) | Urban | Agricultural | Park, Recreation, and Open Space | Transportation, Communication, and Utility (TCU) | Airport | Open Water |
|--------|---------------------|-------|--------------|----------------------------------|--|---------|------------|
| Monroe | 699.5               | 42.5% | 49.6%        | 2.3%                             | 4.5%   | 0.1%    | 1.1%       |
| Wayne  | 824.6               | 66.7% | 5.3%         | 6.0%                             | 19.5%  | 1.4%    | 1.0%       |

The land use data were obtained from Southeast Michigan Council of Governments (2008). It was created at parcel level by assigning to one of eleven land use classifications based on parcel property class codes. The 11 land use classifications are airport, agricultural, single-family residential, multiple-family residential, commercial, industrial, governmental/institutional, park recreation and open space, transportation, communication, and utility (TCU) and water.

The single-family residential, multiple-family residential, commercial, industrial, governmental/institutional are further grouped in to urban land use in this report.

In Monroe County, the major land uses are urban and agriculture, which covers more than 90 percent of the County land.

In Wayne County, the major land uses are urban and TCU, which covers more than 86 percent of the County land.

The Monroe County Comprehensive Plan 2010 Update (Monroe County Planning Department & Commission 2010) addresses the land use and infrastructure issues and projects 20 years into the future to show the recommendation for the physical development of the County. A future land use map is also included in the plan.

The County recognized the rapid urbanization during the past decades. Over 13,000 acres of farmland converted to residential, commercial, industrial, extractive, recreational, and other urban uses between 1990 and 2000. The vast majority of these changes occurred well outside of existing population centers, and illustrates a trend toward the type of scattered and decentralized growth often referred to as urban sprawl.

The County set the goals and objectives for overland land use, transportation, public utilities, natural resources, agriculture, residential, recreation and open space, economic development, and future land use plan.

The objectives of natural resources set by the County include:

- Identify areas of the County that are essential to ground water recharge and have high potential to contribute to ground water pollution and create the necessary controls and guidelines to protect the quantity and quality of groundwater resources
- Inventory existing wetlands, woodlands, and other natural habitats and develop mechanisms to protect their functions and values
- Improve the quality of surface water in Monroe County waterways
- Improve air quality in Monroe County
- Improve programs that reduce the amount of solid waste requiring disposal

The objectives of recreation and open space set by the County include:

- Improve existing parks
- Encourage use of County parks
- Encourage use of River Raisin
- Acquire additional park facilities
- Provide necessary funding and manpower to efficiently run the park system
- Improve cooperation and representation with other recreation providers.

### Wayne County

No future land use information was found prior to the Discovery Meeting from the County. Communities will be asked during the Discovery Meeting.

The City of Detroit Master Plan of Policies (Detroit City Council 2009) included a future land use maps. The purpose of the land use and transportation definitions and maps are to define the urban form proposed for the City and the relationship among the various land uses and the transportation network. The Discovery maps illustrate how Detroit should grow within its boundaries to have a rational urban form and promote infill.

### **3.2.16 Levees**

The Midterm Levee Inventory (MLI) project compiled a database of structures that were designed to provide at least the minimum level of protection from the base flood level (1-percent-annual-chance). The latest MLI Status Report was published in November 2011 by FEMA.

The MLI Levee database shows 1 levee segment in Wayne County and 10 in Monroe County. Levees within the project area are listed in Table 20 and are shown on the Discovery Maps.

**Table 20: Summary of Levees in Wayne and Monroe Counties, MI**

| Segment ID           | Length (miles) | Segment Name                               | Owner                          | Flood Source  | FIRM Protection | Segment Certification | MLI Potential Hazard Classification | Design Frequency | FEMA Accreditation Date | Was a PAL? |
|----------------------|----------------|--|--------------------------------|---------------|-----------------|-----------------------|-------------------------------------|------------------|-------------------------|------------|
| <b>Wayne County</b>  |                |  |                                |               |                 |                       |                                     |                  |                         |            |
| 1504001673           | 1.28           | City of Trenton Unnamed Levee              | -                              | Detroit River | No              | Not Certified         | -                                   | -                | -                       | -          |
| <b>Monroe County</b> |                |  |                                |               |                 |                       |                                     |                  |                         |            |
| 1504001470           | 1.63           | Estral Beach Advance Measures              | USACE                          | Lake Erie     | No              | Not Certified         | Zone AE and A1-A30                  | -                | -                       | -          |
| 1504001471           | 1.0            | Charter Township of Frenchtown Levee       | Charter Township of Frenchtown | Lake Erie     | No              | Not Certified         | Zone AE and A1-A30                  | -                | -                       | -          |
| 1504001472           | 1.26           | USACE Charter Township of Frenchtown Levee | USACE                          | Lake Erie     | No              | Not Certified         | Zone AE and A1-A30                  | -                | -                       | -          |
| 1504001473           | 1.02           | City of Monroe                             | City of Monroe                 | Strong River  | Yes             | Not Certified         | Zone AE and A1-A30                  | -                | -                       | -          |
| 1504001474           | 0.14           | City of Monroe levee 2                     | City of Monroe                 | Lake Erie     | No              | Not Certified         | -                                   | -                | -                       | -          |
| 1504001475           | 2.09           | Luna Pier Levee                            | USACE                          | Lake Erie     | No              | Not Certified         | Zone AE and A1-A30                  | -                | -                       | -          |
| 1504001476           | 2.79           | Erie Township Levee                        | -                              | Lake Erie     | No              | Not Certified         | Zone AE and A1-A30                  | -                | -                       | -          |
| 1504001477           | 0.66           | Erie Township Levee 1                      | -                              | Lake Erie     | No              | Not Certified         | Zone AE and A1-A30                  | -                | -                       | -          |
| 1504001478           | 1.89           | Charter Township of Monroe Levee 1         | -                              | Lake Erie     | No              | Not Certified         | Zone AE and A1-A30                  | -                | -                       | -          |
| 1504001479           | 0.49           | Charter Township of Monroe Levee 2         | -                              | Lake Erie     | No              | Not Certified         | -                                   | -                | -                       | -          |

PAL = Provisionally Accredited Levee

### 3.2.17 Letters of Map Change

A Letter of Map Change (LOMC) is a letter that reflects an official revision to an effective NFIP map. LOMCs are issued in place of the physical revision and republication of the effective FIRM. LOMCs include completed cases of Letters of Map Amendment (LOMAs) and Letters of Map Revision (LOMRs), including LOMRs based on fill (LOMR-Fs), and conditional LOMRs. The lists of LOMC cases were obtained from the FEMA Mapping Information Platform Web site (<https://hazards.fema.gov/femaportal/wps/portal>) on April 2012.

Table 21 lists the number of LOMCs in each County. Clusters of LOMCs indicate a need for updated maps and are shown on the Discovery Map. No Conditional LOMAs or Conditional LOMR-Fs were included.

**Table 21: Summary of LOMC Cases in Monroe and Wayne Counties, MI**

| County        | Number of Letters of Map Amendment | Number of Letters of Map Revision | Number of Letters of Map Amendment within Project Area |
|---------------|------------------------------------|-----------------------------------|--|
| Monroe County | 304                                | 9                                 | 92   |
| Wayne County  | 1,111                              | 61                                | 849  |

### 3.2.18 Mitigation Plan Status and Mitigation Projects

A local hazard mitigation plan is a long-term strategic/guidance document used by an entity to reduce future risk to life, property and the economy in a community. A hazard mitigation plan has the following elements:

- A public participation process for diverse stakeholders in the jurisdiction(s) to provide an array of input into the plan.
- A risk assessment to identify hazards, determine the people and property subject to those hazards, and estimate vulnerability
- A mitigation strategy that contains goals, objectives, and an action plan to implement priority mitigation actions that reduce risk
- A maintenance process to ensure the plan is reviewed and updated
- An adoption requirement to ensure the support from participating jurisdictions

Local mitigation plan are required to be updated every 5 years to maintain eligibility for FEMA Hazard Mitigation Assistance grant programs.

The status of current hazard mitigation plans is shown in Table 22. The data were obtained from FEMA’s Plan Approval Status Report based on Regional reports for the end of May 2012 (FEMA 2012b).

No status has been provided for the Monroe County mitigation plan.

The FEMA report dated May 2012 indicates that the mitigation plan for the City of Detroit has expired.

**Table 22: Status of Hazard Mitigation Plans**

| Participating Jurisdiction   | Approval Date | Expiration Date | Second Approval Date | Link |
|------------------------------|---------------|-----------------|----------------------|------|
| Monroe County                | N/A           | N/A             | N/A                  | N/A  |
| Wayne County                 | 04/27/2006    | 06/22/2012      | N/A                  | N/A  |
| Detroit, City of (Wayne Co.) | 01/24/2007    | 03/22/2012      | N/A                  | N/A  |

**3.2.18.1 Hazard Mitigation Grant Program**

Hazard mitigation initiatives are intended to actively reduce a community’s vulnerability to hazards and are developed to accurately reflect a community’s need. A variety of hazard mitigation projects has been submitted to FEMA’s Hazard Mitigation Grant Program. A list of completed projects was provided by FEMA in August 2012 and is summarized in Table 23. The locations of the mitigated properties are shown on the Discovery Maps.

**Table 23: Hazard Mitigation Grant Projects**

| Jurisdiction            | Project Description   |
|-------------------------|---|
| Brownstown, Township of | Elevate seven homes (7~12 structures)   |
| Gibraltar, City of      | Elevation and acquisition of floodprone structures in the City of Gibraltar such that the finished floors are above the 100-year floodplain |
| Gibraltar, City of      | Elevate 12 residential structures   |

**3.2.18.2 Public Assistance Projects**

A list of Public Assistance-funded projects is available at the FEMA data feeds Web site (<http://www.fema.gov/data-feeds>).

In Monroe County, 25 Public Assistance projects with \$193,419 of Federal share obligations were related to the snow event in January 1999, and 7 projects with \$32,175 of Federal share obligations were related to the power outage in September 2003.

In Wayne County, 69 Public Assistance projects with \$2,482,829 of Federal share obligations were related to the snow event in January 1999, 67 projects with \$2,319,380 of Federal share obligations were related to the power outage in September 2003, and 2 projects with \$281,189 of Federal share were related to the hurricane in September 2005.

**3.2.18.3 Great Lakes Restoration Initiative Projects**

Counties in Lake Erie have received the funding from Great Lake Restoration Initiative to protect, restore, and sustain the Great Lakes. A total of 61 projects and programs were awarded in 2010 and 2011. The complete list of projects and programs are available at the Michigan Department of Environmental Quality Web site ([http://www.michigan.gov/deq/0,1607,7-135-3313\\_3677\\_51091\\_56118-236813--,00.html](http://www.michigan.gov/deq/0,1607,7-135-3313_3677_51091_56118-236813--,00.html)).



**3.2.18.4 Locality Identified Mitigation Projects**

The Wayne County Hazard Mitigation Plan (2006) evaluated 40 hazards using a combination of historical research, surveys, workshops, and outreach meetings with the communities. As a result of the analysis, the County identified five hazards as deserving additional consideration for mitigation and planning. These five hazards include flooding, Hazmat incidents – transportation, infrastructure failure, public health emergencies, and tornadoes. The Wayne County Hazard Mitigation Plan Advisory Committee identified 42 mitigation strategies for consideration and selected 13 to develop as action plans.

**3.2.19 Oblique Imagery**

The USACE collected oblique imagery for the entire Great Lakes coastline in 2012. Oblique imagery is captured at an angle, as compared to the overhead view provided by orthophotos, and allows users a three-dimensional view of landscape, buildings, and other features. The oblique imagery for the entire Great Lakes Area can be viewed at <http://greatlakes.usace.army.mil/> and was also available for viewing during the Discovery Meetings. This dataset may be useful to communities during emergency response and planning as well as for the management of assets, critical facilities, and public properties along the Lake Erie shoreline.

**3.2.20 Ordinances**

County regulations regarding development within known flood hazard areas can range from ordinances with minimum NFIP requirements to strong, pro-active ordinances that not only regulate and protect new and improved development in existing Special Flood Hazard Areas (SFHAs) but also seek to mitigate the growth of SFHAs caused by increased runoff from developed areas and the degradation of natural flood control areas, such as wetlands and forests.

Title 44 of the Code of Federal Regulations Sections 60.3(a)–(e) describe the NFIP floodplain ordinance levels and provide the minimum requirements for community participation in the NFIP. The proper ordinance level for each community is determined by the type of flooding that is present within the community, as shown in Table 24.

**Table 24: Floodplain Ordinance Levels**

| <b>Ordinance Level</b> | <b>Description</b>   |
|------------------------|--|
| A                      | Floodplains have not been identified   |
| B                      | Floodplains with no base flood elevations (BFEs)                             |
| C                      | Floodplains with BFEs or coastal flooding with no high-hazard areas (Zone V) |
| D                      | Floodplains with BFEs and floodways  |
| E                      | Coastal high-hazard areas identified, but no floodways                       |
| D & E                  | Both floodways and coastal high-hazard areas                                 |

Ordinance level information for Monroe and Wayne Counties is shown in Table 25.

**Table 25: Program Status and Ordinance Level for Monroe and Wayne Counties, MI**

| Community                       | CID    | Program Status    | Ordinance Level |
|---------------------------------|--------|-------------------|-----------------|
| <b>Monroe County</b>            |        |                   |                 |
| Berlin, Charter Township of     | 260143 | Participating     | D               |
| Erie, Township of               | 260145 | Participating     | D               |
| Estral Beach, Village of        | 260261 | Participating     | D               |
| Frenchtown, Charter Township of | 260146 | Participating     | D               |
| La Salle, Township of           | 260148 | Participating     | D               |
| Luna Pier, City of              | 260150 | Participating     | D               |
| Monroe, City of                 | 260153 | Participating     | D               |
| Monroe, Charter Township of     | 260154 | Participating     | D               |
| South Rockwood, Village of      | 260320 | Participating     | D               |
| <b>Wayne County</b>             |        |                   |                 |
| Brownstown, Charter Township of | 260218 | Participating     | D               |
| Detroit, City of                | 260222 | Participating     | C               |
| Dearborn, City of               | 260220 | Participating     | D               |
| Ecorse, City of                 | 260223 | Participating     | D               |
| Flat Rock, City of              | 260224 | Participating     | D               |
| Gibraltar, City of              | 260226 | Participating     | D               |
| Grosse Ile, Township of         | 260227 | Participating     | C               |
| Lincoln Park, City of           | 260234 | Participating     | D               |
| Melvindale, City of             | 260310 | Not Participating | N/A             |
| River Rouge, City of            | 260239 | Participating     | C               |
| Riverview, City of              | 260240 | Participating     | D               |
| Rockwood, City of               | 260241 | Participating     | D               |
| Southgate, City of              | 260242 | Participating     | D               |
| Trenton, City of                | 260244 | Participating     | D               |
| Woodhaven, City of              | 260730 | Participating     | D               |
| Wyandotte, City of              | 260246 | Participating     | D               |

CID = Community Identification

### 3.2.21 Regulatory Mapping

The effective FIS reports from all coastal-influenced jurisdictions in Monroe and Wayne Counties are included in Table 26.

The effective FIS for Monroe County (All Jurisdictions) (FEMA 2000) is dated April 20, 2000. Each jurisdiction included in this countywide FIS was compiled from their previously printed FIS reports. The status of coastal influenced jurisdictions is listed in Table 26.

For the Monroe County FIS, the hydrologic and hydraulic analyses for Lake Erie for its entire shoreline within the County were prepared by the USACE, Detroit District. The report was completed in April 1988 (USACE 1988).

The effective FIS for Wayne County (All Jurisdictions) (FEMA 2012a) is dated February 2, 2012. Each jurisdiction included in this countywide FIS was compiled from their previously printed FIS reports. The status of coastal influenced jurisdictions is listed in Table 26.

For this Wayne County FIS, the flood elevation estimates for Lake Erie for its entire shoreline within the County were prepared by the USACE, Detroit District. The report was completed in April 1988 (USACE 1988).

**Table 26: Effective FIS Status of Monroe and Wayne Counties, MI**

| Community                       | CID    | Product Types | Initial FIRM | Previous Flood Insurance Study | Effective Flood Insurance Study |
|---------------------------------|--------|---------------|--------------|--------------------------------|---------------------------------|
| <b>Monroe County</b>            |        |               |              |                                |                                 |
| Berlin, Charter Township of     | 260143 | FIS and FIRM  | 11/03/1982   | 05/03/1982                     | 04/20/2000                      |
| Erie, Township of               | 260145 | FIS and FIRM  | 09/01/1978   | March 1978                     | 04/20/2000                      |
| Estral Beach, Village of        | 260261 | FIS and FIRM  | 11/02/1983   | 05/02/1983                     | 04/20/2000                      |
| Frenchtown, Charter Township of | 260146 | FIS and FIRM  | 01/19/1978   | March 1977                     | 04/20/2000                      |
| La Salle, Township of           | 260148 | FIS and FIRM  | 08/15/1977   | August 1977                    | 04/20/2000                      |
| Luna Pier, City of              | 260150 | FIS and FIRM  | 06/01/1982   | 12/1/1981                      | 04/20/2000                      |
| Monroe, City of                 | 260153 | FIS and FIRM  | 06/15/1977   | December 1976                  | 04/20/2000                      |
| Monroe, Charter Township of     | 260154 | FIS and FIRM  | 04/03/1978   | June 1977                      | 04/20/2000                      |
| South Rockwood, Village of      | 260320 | FIS and FIRM  | 05/02/1983   | 11/02/1982                     | 04/20/2000                      |
| <b>Wayne County</b>             |        |               |              |                                |                                 |
| Brownstown, Charter Township of | 260218 | FIS and FIRM  | 08/16/1982   | 02/16/1982                     | 02/02/2012                      |
| Dearborn, City of               | 260220 | FIS and FIRM  | 04/20/1978   | 05/06/1996                     | 02/02/2012                      |
| Detroit, City of                | 260222 | FIS and FIRM  | 07/02/1981   | 04/17/1984                     | 02/02/2012                      |
| Ecorse, City of                 | 260223 | FIS and FIRM  | 05/01/1978   | November 1977                  | 02/02/2012                      |
| Flat Rock, City of              | 260224 | FIS and FIRM  | 12/01/1981   | 06/01/1981                     | 02/02/2012                      |
| Gibraltar, City of              | 260226 | FIS and FIRM  | 06/15/1979   | December 1978                  | 02/02/2012                      |

| Community               | CID    | Product Types | Initial FIRM | Previous Flood Insurance Study | Effective Flood Insurance Study |
|-------------------------|--------|---------------|--------------|--------------------------------|---------------------------------|
| Grosse Ile, Township of | 260227 | FIS and FIRM  | 08/01/1980   | February 1980                  | 02/02/2012                      |
| Lincoln Park, City of   | 260234 | FIS and FIRM  | 11/17/1982   | 05/17/1982                     | 02/02/2012                      |
| Melvindale, City of     | 260310 | FIS and FIRM  | 02/02/2012   | N/A                            | 02/02/2012                      |
| River Rouge, City of    | 260239 | FIS and FIRM  | 01/05/1978   | March 1977                     | 02/02/2012                      |
| Riverview, City of      | 260240 | FIS and FIRM  | 09/16/1981   | 03/19/1981                     | 02/02/2012                      |
| Rockwood, City of       | 260241 | FIS and FIRM  | 06/15/1979   | December 1978                  | 02/02/2012                      |
| Southgate, City of      | 260242 | FIS and FIRM  | 09/15/1978   | March, 1978                    | 02/02/2012                      |
| Trenton, City of        | 260244 | FIS and FIRM  | 08/17/1981   | 06/19/1985                     | 02/02/2012                      |
| Woodhaven, City of      | 260730 | FIS and FIRM  | 02/05/1986   | 02/05/1986                     | 02/02/2012                      |
| Wyandotte, City of      | 260246 | FIS and FIRM  | 05/01/1978   | November 1977                  | 02/02/2012                      |

CID = Community Identification

Sources: FEMA, Community ID Search Report, MI, dated April 10, 2012; FEMA FIS Report, Monroe County, MI (All Jurisdictions), dated April 20, 2000; and FEMA FIS Report, Wayne County, MI (All Jurisdictions), dated February 2, 2012.

### 3.2.22 Repetitive Loss / Severe Repetitive Loss Properties

FEMA’s data suggest that claims for repetitive losses were filed in several communities in Monroe and Wayne Counties, as shown in Table 27.

**Table 27: Summary of Repetitive Loss in Monroe and Wayne Counties, MI**

| County | CID    | Community Name                  | No. of Rep Losses |
|--------|--------|---------------------------------|-------------------|
| Monroe | 260143 | Berlin, Charter Township of     | 7                 |
|        | 260145 | Erie, Township of               | 16                |
|        | 260261 | Estral Beach, Village of        | 10                |
|        | 260146 | Frenchtown, Charter Township of | 20                |
|        | 260148 | La Salle, Township of           | 36                |
|        | 260150 | Luna Pier, City of              | 13                |
|        | 260154 | Monroe, Charter Township of     | 14                |
|        | 260153 | Monroe, City of                 | 6                 |
|        | 260320 | South Rockwood, Village of      | 0                 |
| Wayne  | 260218 | Brownstown, Charter Township of | 7                 |
|        | 260222 | Detroit, City of                | 6                 |
|        | 260226 | Gibraltar, City of              | 84                |
|        | 260227 | Grosse Ile, Township of         | 4                 |

| County | CID    | Community Name        | No. of Rep Losses |
|--------|--------|-----------------------|-------------------|
| Wayne  | 260234 | Lincoln Park, City of | 1                 |
|        | 260241 | Rockwood, City of     | 1                 |
|        | 260244 | Trenton, City of      | 3                 |
|        | 260246 | Wyandotte, City of    | 2                 |

CID = Community Identification

### 3.2.23 Socio-Economic Analysis

Table 28 provides the census population data from 1990, 2000, and 2010 for Monroe and Wayne Counties.

**Table 28: Summary of Population Data in Monroe and Wayne Counties, MI**

| County | 1990 Population | 2000 Population | 2010 Population |
|--------|-----------------|-----------------|-----------------|
| Wayne  | 2,111,687       | 2,061,162       | 1,820,584       |
| Monroe | 133,600         | 145,945         | 152,021         |

Source: US Census Bureau, 2010

According to the U.S. Census Bureau (2010), the 2000 total population of Monroe County was 145,945 and 152,021 in 2010. Most of the population is concentrated in the urban and suburban areas of the City of Monroe and the immediately surrounding communities.

The major land covers in the Monroe County are urban and cropland, which covers more than 90 percent of the County land.

Employment statistics in Monroe County show that the manufacturing retail trade and educational and health care services represents three largest segments of jobs at over 50 percent of the employment (U.S. Census Bureau 2010).

According to the U.S. Census Bureau (2010), the 2000 total population of Wayne County was 2,061,162 and 1,820,584 in 2010. Most of the population is concentrated in the urban and suburban areas of the Detroit-Warren-Livonia Metro area.

The major land uses in Wayne County are urban and TCU that covers more than 86 percent of the County land.

Employment statistics in Monroe County show that the manufacturing retail trade, educational and health care services, and hospitality services represents the largest segments of jobs at over 60 percent of the employment (U.S. Census Bureau 2010).

### 3.2.24 Transects

Cross-shore transects are used during coastal hazards analysis and mapping to define representative profiles for a shoreline reach to model coastal flood risks inland of the shoreline.

The transect layout for coastal hazards analysis and subsequent floodplain delineation is determined by physical factors such as changes in topography, bathymetry, shoreline orientation, and land cover data, in addition to societal factors such as variations in development and density. These physical and societal factors along with aerial photographs were reviewed to determine the appropriate placement for hazard modeling transects.

Transects were spaced at closer intervals (approximately two transects per shoreline mile) for more populated and varying coastal areas. In areas of low population and uniform coastline, transects were placed approximately 1 to 2 miles apart.

The draft transect layout is shown on the Discovery Maps. There are 42 proposed transects in Monroe County and 44 in Wayne County.

### **3.2.25 Other Resources**

The Great Lakes Coastal Resilience Planning Guide Web site (<http://greatlakesresilience.org/>) provides helpful information on coastal topics and digital coastal GIS data inventory.

### SECTION FOUR DISCOVERY MEETING

The Discovery Meeting for the Project Area was held on August 9, 2012, in Woodhaven, MI. Communities affected by coastal flooding in Monroe and Wayne Counties were invited to the Discovery Meeting and 27 people, including representatives from FEMA, State agencies, and communities, attended the meeting. The purpose of this meeting was to facilitate discussion about study needs, mitigation project needs, desired compliance support, and local flood risk awareness efforts. During the Discovery Meeting, fact sheets on the Great Lakes Coastal Flood Study were distributed. These fact sheets can be obtained from the project Web site:

<http://www.greatlakescoast.org/tag/fact-sheets/>.

Discovery Maps were displayed at the meeting to stimulate the discussion. Attendees, including all affected communities and selected other stakeholders, were asked to cooperatively identify Areas of Concern within the Great Lakes Coastal Project Area.

Discovery Meeting Minutes and all other meeting materials are included in Attachments C and D.

## SECTION FIVE RISK MAP PROJECTS AND NEEDS

### 5.1 COASTAL STUDIES

Information and data collected as part of the Lake Erie Discovery effort and provided in this report will be used in the upcoming Great Lakes Coastal Flood Study for Lake Erie. A summary of the Great Lakes Coastal Flood Study project can be found at <http://www.greatlakescoast.org/> under the “Great Lakes Coastal Analysis & Mapping” section.

The upcoming study is expected to include the following tasks: creation of bathymetric and topographic data, base map acquisition, coastal flood hazard analysis, and Risk MAP product development.

### 5.2 MITIGATION PROJECTS

Flood mitigation is any action taken to reduce risk to people or property from flooding and its effects. Mitigation actions reduce flood risk to existing and future structures and their occupants, and are the foundation of most communities’ flood mitigation efforts.

Examples of mitigation actions include:

- Creating or updating Hazard Mitigation Plans
- Adopting standards beyond NFIP minimums for flood loss reduction
- Acquiring or relocating insured structures to reduce claims on the NFIP
- Elevating floodprone structures above the 1-percent-annual-chance flood
- Elevating or dry floodproofing insured non-residential structures
- Drainage projects that protect NFIP-insured properties
- Retrofitting existing buildings and facilities
- Vegetative management/ soil stabilization

The Hazard Mitigation Plan Status and Mitigation Projects for Monroe and Wayne Counties are described in Section 3.2.18.

As this Lake Erie coastal project moves forward, continued discussion regarding FEMA partnerships with local communities will be essential to assist in developing new mitigation actions and moving those actions forward.

### 5.3 COMPLIANCE

During the Discovery process, compliance issues were identified and discussed. Monroe County has seven open CAVs and Wayne County has eight open CAVs. Open CAVs can be an indicator of unresolved floodplain management issues. The type of floodplain management ordinances that each community has adopted may need to be changed once the Lake Erie Study is complete. As discussed in the Ordinance section of this report, the Cities of Detroit, Melvindale, and River Rouge and the Township of Grosse Ile, all in Wayne County, will likely need to update their floodplain management ordinances at the completion of the study because they are the only



coastal communities without ordinances at a level D. Once the Lake Erie coastal study is complete, all communities should re-evaluate their ordinances and update as required to maintain compliance with local and NFIP regulations.

### 5.4 COMMUNICATION

Throughout the Discovery process, community representatives and local stakeholders indicated a desire to be kept informed about the results of Discovery, the upcoming coastal flood study, and opportunities for public input throughout the study process. As a result of communication to date, new stakeholders have been identified and added to the master contact database for this study.

Ongoing communication and coordination will continue to be an essential part of the Lake Erie Coastal Flood Study. Throughout Discovery, Federal, State, and local stakeholders were kept informed via email, letters, newsletters, and meetings. The Great Lakes Coastal Flood Study Web site (<http://www.greatlakescoast.org>) is an excellent resource where stakeholders can obtain the most update-to-date information about the status of the Great Lakes Coastal Flood Study, data collection, upcoming meetings, new technical reports, the latest methodologies, fact sheets, and additional information. Social media sites, such as Twitter and Facebook, are also being used for the Great Lakes Coastal Flood Study.

### 5.5 UNMET NEEDS

During the Discovery Meetings, Lake Erie stakeholders had some concerns about adoption of new coastal floodplain maps and having to update zoning ordinances. There are currently no Zone V areas mapped along the Lake Erie shoreline and it is likely that the new flood study would result in the establishment of V Zones. As a result, communities would need to adopt more restrictive floodplain management ordinances.

At the conclusion of the Lake Erie Coastal Study, communities can examine the results of the study and determine if their existing mitigation projects and floodplain management programs are adequate or if they have needs that have not been met by the new study.

## **SECTION SIX      CLOSE**

State and local stakeholders were interested in the Discovery process and in providing local data that may assist in the upcoming Lake Erie Flood Study. Many stakeholders are interested in learning more about the new methodologies being used as part of the Great Lakes Coastal Flood studies, and how their community will be affected by the flood study. The information gathered in this Discovery process will provide invaluable information as the Lake Erie Coastal Flood Study proceeds.

## **SECTION SEVEN ATTACHMENTS**

Attachment A: Communications

Attachment B: Data Collection

Attachment C: Discovery Maps

Attachment D: Discovery Meeting

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**SECTION EIGHT REFERENCES**

- Detroit City Council, 2009, City of Detroit Master Plan of Policies, <http://www.detroitmi.gov/Departments/PlanningDevelopmentDepartment/Planning/LongRangeandCommunityPlanning/2004MasterPlanDraft/tabid/2055/Default.aspx>, accessed July 19, 2012.
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U.S. Department of Agriculture Natural Resources Conservation Service, 2011, Watershed Boundary Dataset Hydrologic Unit Code 8, <http://datagateway.nrcs.usda.gov/>.

Wayne County, MI, 2006, Wayne County Hazard Mitigation Plan, March 16, 2006.

# Attachment A: Communications

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Attachment A-1: Local Stakeholder Contact Information

Attachment A-2: Discovery Meeting Invitations

Attachment A-3: Information Exchange Session Presentation

# Attachment A-1

## Local Stakeholder Contact Information

| Organization Name  | Organization Website  | Point of Contact          | Title                                     | Address   | City, ST Zip           | Phone        | Email   | Group            | Category               | County/State/Watershed | Community                                   |
|--|---|---------------------------|---|---|------------------------|--------------|---|------------------|------------------------|------------------------|---|
| Berlin Charter Township  | <a href="http://monroe.lib.mi.us/community_info_berlin_township.htm">http://monroe.lib.mi.us/community_info_berlin_township.htm</a>   | Mr. Richard Reed          | Supervisor                                | 8000 Swan View                                    | Newport, MI 48166-9139 | 734-586-2187 | n/a   | Township         | Government             | Monroe                 | Berlin, Charter Township of                 |
| Berlin Charter Township Planning Commission                              | <a href="http://monroe.lib.mi.us/community_info_berlin_township.htm">http://monroe.lib.mi.us/community_info_berlin_township.htm</a>   | Mr. Marv Reaume           |   | 8000 Swan View                                    | Newport, MI 48166-9139 | 734-586-2187 | n/a   | Township         | Planning               | Monroe                 | Berlin, Charter Township of                 |
| Charter Township of Brownstown   | <a href="http://brownstown-mi.org/phone_directory.html">http://brownstown-mi.org/phone_directory.html</a>   | Mr. Andy Linko            | Supervisor                                | 21313 Telegraph Road                              | Brownstown, MI 48183   | 734-675-0071 | <a href="mailto:andrew.linko@brownstown-mi.org">andrew.linko@brownstown-mi.org</a>  | Charter Township | Government             | Wayne                  | Brownstown, Charter Township of             |
| Charter Township of Brownstown Building Department                       | <a href="http://brownstown-mi.org/phone_directory.html">http://brownstown-mi.org/phone_directory.html</a>   | Mr. Chuck Earl            | Building Official                         | 21313 Telegraph Road                              | Brownstown, MI 48183   | 734-675-0166 | <a href="mailto:cearl@brownstown-mi.org">cearl@brownstown-mi.org</a>  | Charter Township | Building               | Wayne                  | Brownstown, Charter Township of             |
| Charter Township of Brownstown Department of Public Works                | <a href="http://brownstown-mi.org/phone_directory.html">http://brownstown-mi.org/phone_directory.html</a>   | Mr. Mark Gahry            | Director                                  | 21313 Telegraph Road                              | Brownstown, MI 48183   | 734-675-4000 | <a href="mailto:markg@brownstown-mi.org">markg@brownstown-mi.org</a>  | Charter Township | Public Works           | Wayne                  | Brownstown, Charter Township of             |
| City of Dearborn - Economics & Community Development Department          | <a href="http://www.cityofdearborn.org/contact-us">http://www.cityofdearborn.org/contact-us</a>   | Mr. Barry Murray          | Economic & Community Development Director | 13615 Michigan Ave                                | Dearborn, MI 48126     | 313-943-2300 | <a href="http://www.cityofdearborn.org/components/contact/contact/4-uncategorised/9-barry-murray">http://www.cityofdearborn.org/components/contact/contact/4-uncategorised/9-barry-murray</a> | Community        | Development            | Wayne                  | Dearborn, City of                           |
| City of Dearborn - Mayor's Office  | <a href="http://www.cityofdearborn.org/contact-us">http://www.cityofdearborn.org/contact-us</a>   | Mr. John B. O'Reilly, Jr. | Mayor                                     | 13615 Michigan Ave                                | Dearborn, MI 48126     | 313-943-2300 | <a href="http://www.cityofdearborn.org/components/contact/contact/4-uncategorised/2-mayor">http://www.cityofdearborn.org/components/contact/contact/4-uncategorised/2-mayor</a>               | Community        | Government             | Wayne                  | Dearborn, City of                           |
| US Fish and Wildlife Service Detroit River International Wildlife Refuge | <a href="http://www.fws.gov/midwest/detroitriver/">http://www.fws.gov/midwest/detroitriver/</a>   | Dr. John H. Hartig        | Refuge Manager                            | DRIWR Large Lakes Research Station 9311 Groh Road | Grosse Ile, MI 48138   | 734-692-7608 | <a href="mailto:John_Hartig@fws.gov">John_Hartig@fws.gov</a>  | Federal          | Environment            | International          | Detroit River International Wildlife Refuge |
| City of Detroit Building, Safety Engineering & Environmental Department  | <a href="http://71.159.23.2/BSEOnline/home.action">http://71.159.23.2/BSEOnline/home.action</a>   | Mr. Nathan Ford           | Director                                  | Two Woodward Ave - Suite 401                      | Detroit, MI 48226      | 313-224-2733 | <a href="mailto:FordNa@detroitmi.gov">FordNa@detroitmi.gov</a>  | Community        | Building & Engineering | Wayne                  | Detroit, City of                            |
| City of Detroit Homeland Security & Emergency Management                 | <a href="http://www.detroitmi.gov/DepartmentsandAgencies/HomelandSecurityEmergencyManagement.aspx">http://www.detroitmi.gov/DepartmentsandAgencies/HomelandSecurityEmergencyManagement.aspx</a> | Mr. Daryl R. Lundy        | Director                                  | Two Woodward Ave                                  | Detroit, MI 48226      | 313-596-5562 | <a href="mailto:HSEM@detroitmi.gov">HSEM@detroitmi.gov</a>  | Community        | Emergency Management   | Wayne                  | Detroit, City of                            |



| Organization Name                                     | Organization Website  | Point of Contact         | Title                         | Address                               | City, ST Zip            | Phone              | Email  | Group     | Category               | County/State/Watershed | Community                |
|---|---|--------------------------|-------------------------------|---------------------------------------|-------------------------|--------------------|--|-----------|------------------------|------------------------|--------------------------|
| City of Detroit Mayor's Office                        | <a href="http://www.detroitmi.gov/MayorsOffice/tabid/123/Default.aspx">http://www.detroitmi.gov/MayorsOffice/tabid/123/Default.aspx</a>   | Mr. Dave Bing            | Mayor                         | 2 Woodward Ave # 1126                 | Detroit, MI 48226       | 313-224-3400       | n/a  | Community | Government             | Wayne                  | Detroit, City of         |
| City of Detroit Planning & Development Department     | <a href="http://www.detroitmi.gov/Departments/PlanningDevelopmentDepartment/tabid/134/Default.aspx">http://www.detroitmi.gov/Departments/PlanningDevelopmentDepartment/tabid/134/Default.aspx</a>                       | Mr. Robert Anderson      | Director                      | 65 Cadillac Square, Suite 2300        | Detroit, MI 48226       | 313-224-6380       | n/a  | Community | Planning & Development | Wayne                  | Detroit, City of         |
| City of Detroit Planning Commission                   | <a href="http://www.detroitmi.gov/CityCouncil/CouncilDivisions/CityPlanningCommission/tabid/2557/Default.aspx">http://www.detroitmi.gov/CityCouncil/CouncilDivisions/CityPlanningCommission/tabid/2557/Default.aspx</a> | Mr. Marcell R. Todd, Jr. | Director                      | Two Woodward Ave - Suite 202          | Detroit, MI 48226       | 313-224-6225       | <a href="mailto:cc-cpc@ci.detroit.mi.us">cc-cpc@ci.detroit.mi.us</a> | Community | Planning               | Wayne                  | Detroit, City of         |
| City of Ecorse  | <a href="http://www.ecorsemi.gov/Reference/Directory.asp">http://www.ecorsemi.gov/Reference/Directory.asp</a>   | Ms. Joyce Parker         | Emergency Manager             | 3869 West Jefferson                   | Ecorse, MI 48229-1798   | 313-386-2410       | n/a  | Community | Emergency Management   | Wayne                  | Ecorse, City of          |
| City of Ecorse  | <a href="http://www.ecorsemi.gov/Reference/Directory.asp">http://www.ecorsemi.gov/Reference/Directory.asp</a>   | Ms. Terri Capra          | Community Development Manager | 3869 West Jefferson                   | Ecorse, MI 48229-1798   | 313-386-2400       | n/a  | Community | Development            | Wayne                  | Ecorse, City of          |
| City of Ecorse Department of Building and Engineering | <a href="http://www.ecorsemi.gov/Reference/Directory.asp">http://www.ecorsemi.gov/Reference/Directory.asp</a>   | Mr. Jack Durbin          | City Engineer                 | 3869 West Jefferson                   | Ecorse, MI 48229-1798   | 313-386-2520       | n/a  | Community | Building & Engineering | Wayne                  | Ecorse, City of          |
| Erie Township   | <a href="http://erietownship.com/">http://erietownship.com/</a>   | Mr. Bill Frey            | Township Supervisor           | 2065 Erie Road, P.O. Box 187          | Erie, Michigan 48133    | 734.848.5915 ext.1 | <a href="mailto:wfrey@erietownship.com">wfrey@erietownship.com</a>   | Township  | Government             | Monroe                 | Erie, Township of (MI)   |
| Erie Township   | <a href="http://erietownship.com/Departments/TownshipBuildingOfficial/tabid/5481/Default.aspx">http://erietownship.com/Departments/TownshipBuildingOfficial/tabid/5481/Default.aspx</a>                                 | Mr. Michael Demski       | Building/Zoning Official      | 2065 Erie Road, P.O. Box 187          | Erie, Michigan 48133    | 734.848.5915 ext.5 | n/a  | Township  | Building               | Monroe                 | Erie, Township of (MI)   |
| Erie Township Planning Commission                     | <a href="http://erietownship.com/Meetings/tabid/5484/Default.aspx">http://erietownship.com/Meetings/tabid/5484/Default.aspx</a>   | Mr. William Jacobs       | Chairman                      | 2065 Erie Road, P.O. Box 187          | Erie, Michigan 48133    | 734.848.5915       | n/a  | Township  | Planning               | Monroe                 | Erie, Township of (MI)   |
| Village of Estral Beach                               | <a href="http://monroe.lib.mi.us/community_info/village_estrал_beach.htm">http://monroe.lib.mi.us/community_info/village_estrал_beach.htm</a>   | Mr. Bernie Ciupak        | Building Inspector            | 7194 Lakeview Boulevard, P.O. Box 107 | Newport, Michigan 48166 | 734-586-8380       | n/a  | Community | Building               | Monroe                 | Estral Beach, Village of |
| Village of Estral Beach                               | <a href="http://monroe.lib.mi.us/community_info/village_estrал_beach.htm">http://monroe.lib.mi.us/community_info/village_estrал_beach.htm</a>   | Mr. Danny Swindle        | President                     | 7194 Lakeview Boulevard, P.O. Box 107 | Newport, Michigan 48166 | 734-586-8380       | n/a  | Community | Government             | Monroe                 | Estral Beach, Village of |
| Village of Estral Beach                               | <a href="http://monroe.lib.mi.us/community_info/village_estrал_beach.htm">http://monroe.lib.mi.us/community_info/village_estrал_beach.htm</a>   | Mr. Ed Dyson             | Dike Coordinator              | 7194 Lakeview Boulevard, P.O. Box 107 | Newport, Michigan 48166 | 734-586-8380       | n/a  | Community | Floodplain Management  | Monroe                 | Estral Beach, Village of |

| Organization Name                                | Organization Website  | Point of Contact        | Title   | Address             | City, ST Zip           | Phone                 | Email  | Group        | Category              | County/State/Watershed | Community                    |
|--|---|-------------------------|---|---------------------|------------------------|-----------------------|--|--------------|-----------------------|------------------------|------------------------------|
| City of Flat Rock - Building & Safety Department | <a href="http://www.flatrockmi.org/nav/departments/index.asp?profile=2">http://www.flatrockmi.org/nav/departments/index.asp?profile=2</a> | Mr. Bill Vack           | Building Director, Building Official and Zoning Administrator | 25500 Gibraltar Rd. | Flat Rock, MI 48134    | 734-782-0445          | <a href="mailto:BuildingSafety@FlatRockMI.org">BuildingSafety@FlatRockMI.org</a>   | Community    | Building              | Wayne                  | Flat Rock, City of           |
| City of Flat Rock - Mayor's Office               | <a href="http://www.flatrockmi.org/Nav/departments/Mayor/Mayor.asp">http://www.flatrockmi.org/Nav/departments/Mayor/Mayor.asp</a>         | Mr. Jonathan Dropiewski | Mayor   | 25500 Gibraltar Rd. | Flat Rock, MI 48134    | n/a                   | <a href="mailto:Mayor@FlatRockMI.org">Mayor@FlatRockMI.org</a>                     | Community    | Government            | Wayne                  | Flat Rock, City of           |
| City of Flat Rock - Public Services Department   | <a href="http://www.flatrockmi.org/nav/departments/index.asp?profile=6">http://www.flatrockmi.org/nav/departments/index.asp?profile=6</a> | Mr. Bruce Hammond       | Director of Public Services                                   | 25500 Gibraltar Rd. | Flat Rock, MI 48134    | 734-782-2470          | <a href="mailto:DPS@FlatRockMI.org">DPS@FlatRockMI.org</a>                         | Community    | Public Services       | Wayne                  | Flat Rock, City of           |
| Frenchtown Township                              | <a href="http://www.frenchtowntownship.org/buihome.php">http://www.frenchtowntownship.org/buihome.php</a>                                 | Ms. Annette Hopper      | Zoning Administrator  | 2744 Vivian Road    | Monroe, Michigan 48162 | 734-242-5900 Ext 4    | n/a  | Township     | Zoning                | Monroe                 | Frenchtown, Township of      |
| Frenchtown Township                              | <a href="http://www.frenchtowntownship.org/buihome.php">http://www.frenchtowntownship.org/buihome.php</a>                                 | Mr. Clarence L. King    | Building Official   | 2744 Vivian Road    | Monroe, Michigan 48162 | 734-242-5900 Ext 4    | n/a  | Township     | Building              | Monroe                 | Frenchtown, Township of      |
| Frenchtown Township                              | <a href="http://www.frenchtowntownship.org/">http://www.frenchtowntownship.org/</a>   | Mr. James McDevitt      | Supervisor  | 2744 Vivian Road    | Monroe, Michigan 48162 | 734-242-5904          | n/a  | Township     | Government            | Monroe                 | Frenchtown, Township of      |
| Friends of the Detroit River                     | <a href="http://www.detroitriver.org/">http://www.detroitriver.org/</a>   | Mr. David Howell        | Chairman  | PO Box 725          | Trenton, MI 48183      | 734-675-0141          | <a href="mailto:river@detroitriver.org">river@detroitriver.org</a>                 | Organization | Environment           | Wayne                  | Friends of the Detroit River |
| City of Gibraltar Building Department            | <a href="http://www.cityofgibraltar.net/buildingdepartment.htm">http://www.cityofgibraltar.net/buildingdepartment.htm</a>                 | Mr. Virgil Maiani       | Building Official   | 29450 Munro Avenue  | Gibraltar, MI 48173    | 734-675-8251          | <a href="mailto:vmaiani@trenton-mi.com">vmaiani@trenton-mi.com</a>                 | Community    | Building              | Wayne                  | Gibraltar, City of           |
| City of Gibraltar City Administrator's Office    | <a href="http://www.cityofgibraltar.net/humanresources.htm">http://www.cityofgibraltar.net/humanresources.htm</a>                         | Mr. Mark Kibby          | City Administrator  | 29450 Munro Avenue  | Gibraltar, MI 48173    | 734-676-3900          | <a href="mailto:mkibby@cityofgibraltar.net">mkibby@cityofgibraltar.net</a>         | Community    | Government            | Wayne                  | Gibraltar, City of           |
| City of Gibraltar Department of Public Works     | <a href="http://cityofgibraltar.net/dpw.htm">http://cityofgibraltar.net/dpw.htm</a>   | Ms. Linda Sucharski     | Director  | 29450 Munro Avenue  | Gibraltar, MI 48173    | 734-676-8982          | <a href="mailto:lsucharski@cityofgibraltar.net">lsucharski@cityofgibraltar.net</a> | Community    | Floodplain Management | Wayne                  | Gibraltar, City of           |
| City of Gibraltar Mayor's Office                 | <a href="http://www.cityofgibraltar.net/mayor.htm">http://www.cityofgibraltar.net/mayor.htm</a>   | Mr. Jim Gorris          | Mayor   | 29450 Munro Avenue  | Gibraltar, MI 48173    | 734-676-7287          | <a href="mailto:gorrisj@cityofgibraltar.net">gorrisj@cityofgibraltar.net</a>       | Community    | Government            | Wayne                  | Gibraltar, City of           |
| Township of Grosse Ile                           | <a href="http://www.grosseile.com/html/government/supervisor.html">http://www.grosseile.com/html/government/supervisor.html</a>           | Mr. Brian Loftus        | Supervisor  | 9601 Groh Rd.       | Grosse Ile, MI 48138   | 734-676-4422 ext. 215 | <a href="mailto:brianl@grosseile.com">brianl@grosseile.com</a>                     | Township     | Government            | Wayne                  | Grosse Ile, Township of      |
| Township of Grosse Ile                           | <a href="http://www.grosseile.com/html/government/townshipmanager.html">http://www.grosseile.com/html/government/townshipmanager.html</a> | Mr. Dale L. Reaume      | Township Manager  | 9601 Groh Rd.       | Grosse Ile, MI 48138   | 734-676-4422 ext.236  | <a href="mailto:daler@grosseile.com">daler@grosseile.com</a>                       | Township     | Government            | Wayne                  | Grosse Ile, Township of      |

| Organization Name  | Organization Website  | Point of Contact         | Title              | Address                            | City, ST Zip           | Phone                  | Email  | Group     | Category                          | County/State/Watershed | Community               |
|--|---|--------------------------|--------------------|------------------------------------|------------------------|------------------------|--|-----------|-----------------------------------|------------------------|-------------------------|
| Township of Grosse Ile Department of Public Services     | <a href="http://www.grosseile.com/html/government/public%20services.html">http://www.grosseile.com/html/government/public%20services.html</a>   | Mr. Barry Sedlock        | Director           | 9601 Groh Rd.                      | Grosse Ile, MI 48138   | 734-4676-4422 ext. 229 | <a href="mailto:barrys@grosseile.com">barrys@grosseile.com</a>                       | Township  | Public Services                   | Wayne                  | Grosse Ile, Township of |
| Township of Grosse Ile Planning Commission               | <a href="http://www.grosseile.com/html/commissions/planning.html">http://www.grosseile.com/html/commissions/planning.html</a>   | Mr. John Schweickart     | Chairperson        | 9601 Groh Rd.                      | Grosse Ile, MI 48138   | n/a                    | n/a  | Township  | Planning                          | Wayne                  | Grosse Ile, Township of |
| LaSalle Township   | <a href="http://monroe.lib.mi.us/community_info/lasalle_township.htm">http://monroe.lib.mi.us/community_info/lasalle_township.htm</a>   | Mr. Charles LaPointe     | Building Inspector | 4111 LaPlaisance Road, P.O. Box 46 | LaSalle, MI 48145      | 734 243-6455           | n/a  | Township  | Building                          | Monroe                 | LaSalle, Township of    |
| LaSalle Township   | <a href="http://monroe.lib.mi.us/community_info/lasalle_township.htm">http://monroe.lib.mi.us/community_info/lasalle_township.htm</a>   | Mr. Larry T. Rutledge    | Supervisor         | 4111 LaPlaisance Road, P.O. Box 46 | LaSalle, MI 48145      | 734 243-6455           | <a href="mailto:larry.rutledge@lasalletwpmi.com">larry.rutledge@lasalletwpmi.com</a> | Township  | Government                        | Monroe                 | LaSalle, Township of    |
| City of Lincoln Park Building and Engineering Department | <a href="http://lincolnpark.govoffice.com">http://lincolnpark.govoffice.com</a>   | Mr. Dennis Chegash       | Manager            | 1355 Southfield Rd                 | Lincoln Park, MI 48146 | 313-386-1800 ext 296   | <a href="mailto:dchegash@citylp.com">dchegash@citylp.com</a>                         | Community | Building & Engineering Department | Wayne                  | Lincoln Park, City of   |
| City of Lincoln Park Community Planning and Development  | <a href="http://lincolnpark.govoffice.com">http://lincolnpark.govoffice.com</a>   | Mr. Donald Cook          | Director           | 3240 Ferris                        | Lincoln Park, MI 48146 | 313-386-3100           | <a href="mailto:dcook@citylp.com">dcook@citylp.com</a>                               | Community | Planning & Development            | Wayne                  | Lincoln Park, City of   |
| City of Lincoln Park Department of Public Services       | <a href="http://lincolnpark.govoffice.com">http://lincolnpark.govoffice.com</a>   | Mr. Bob Bartok           | Director           | 500 Southfield                     | Lincoln Park, MI 48146 | 313-386-9000           | <a href="mailto:bbartok@citylp.com">bbartok@citylp.com</a>                           | Community | Public Services                   | Wayne                  | Lincoln Park, City of   |
| City of Lincoln Park Mayor's Office                      | <a href="http://lincolnpark.govoffice.com">http://lincolnpark.govoffice.com</a>   | Ms. Patricia Diaz Krause | Mayor              | 1355 Southfield Rd                 | Lincoln Park, MI 48146 | 313-386-1800 ext. 231  | <a href="mailto:mayorkrause@gmail.com">mayorkrause@gmail.com</a>                     | Community | Government                        | Wayne                  | Lincoln Park, City of   |
| City of Lincoln Park Office of City Management           | <a href="http://lincolnpark.govoffice.com">http://lincolnpark.govoffice.com</a>   | Ms. Julie Sadlowski      | Coordinator        | 1355 Southfield Rd                 | Lincoln Park, MI 48146 | 313-386-1800 ext. 231  | <a href="mailto:jsadlowski@citylp.com">jsadlowski@citylp.com</a>                     | Community | Government                        | Wayne                  | Lincoln Park, City of   |
| City of Luna Pier  | <a href="http://www.cityoflunapier.com/CityGovernment/CityAdministrator/tabid/4962/Default.aspx">http://www.cityoflunapier.com/CityGovernment/CityAdministrator/tabid/4962/Default.aspx</a> | Mr. Greg Stewart         | City Administrator | 4357 Buckeye Street                | Luna Pier, MI 48157    | 734-848-6495 ext 204   | <a href="mailto:gstewart@cityoflunapier.com">gstewart@cityoflunapier.com</a>         | Community | Government                        | Monroe                 | Luna Pier, City of      |
| City of Luna Pier  | <a href="http://www.cityoflunapier.com/">http://www.cityoflunapier.com/</a>   | Ms. Mary Liske           | Mayor              | 4357 Buckeye Street                | Luna Pier, MI 48157    | 734-848-6495 ext. 201  | <a href="mailto:mliske@cityoflunapier.com">mliske@cityoflunapier.com</a>             | Community | Government                        | Monroe                 | Luna Pier, City of      |
| City of Luna Pier  | <a href="http://www.cityoflunapier.com/CityGovernment/BuildingInspector/tabid/4966/Default.aspx">http://www.cityoflunapier.com/CityGovernment/BuildingInspector/tabid/4966/Default.aspx</a> | Mr.                      | Michael            |                                    | Demski                 | 734-848-6495 ext. 202  | <a href="mailto:mdemski@cityoflunapier.com">mdemski@cityoflunapier.com</a>           | Community | Building                          | Monroe                 | Luna Pier, City of      |

| Organization Name   | Organization Website  | Point of Contact                 | Title   | Address                        | City, ST Zip                           | Phone        | Email  | Group                 | Category              | County/State/Watershed  | Community          |
|---|---|----------------------------------|---|--------------------------------|--|--------------|--|-----------------------|-----------------------|-------------------------|--------------------|
| City of Luna Pier Planning Commission                                       | <a href="http://www.cityoflunapier.com/BoardsCommittees/Planning/tabid/5467/Default.aspx">http://www.cityoflunapier.com/BoardsCommittees/Planning/tabid/5467/Default.aspx</a> | Mr. Mark Fredericks              | Chairperson                                   | 4357 Buckeye Street            | Luna Pier, MI 48157                    | 734-848-6495 | n/a  | Community             | Planning              | Monroe                  | Luna Pier, City of |
| Applied Science, Inc  | <a href="http://www.asi-detroit.com/">http://www.asi-detroit.com/</a>   | Mr. John R. Michalski, P.E., CFM |   | 300 River Place, Suite 5400    | Detroit, MI 48207                      | 313.567.3990 | <a href="mailto:jmichalski@asi-detroit.com">jmichalski@asi-detroit.com</a>       | Tech Workshop         | Consultant            | Michigan                | Michigan           |
| DEQ Coastal Management Program  | <a href="http://www.michigan.gov/deq/0,1607,7-135-3313_3677_3696---.00.html">http://www.michigan.gov/deq/0,1607,7-135-3313_3677_3696---.00.html</a>                           | Ms. Ronda Wuycheck               | Chief   | MDEQ Office of the Great Lakes | PO Box 30473<br>Lansing, MI 48909-7973 | 517-241-7832 | <a href="mailto:WuycheckR@michigan.gov">WuycheckR@michigan.gov</a>               | State                 | Environment           | State                   | Michigan           |
| DTE Energy, Environmental Management and Resources                          | <a href="http://www.dteenergy.com">www.dteenergy.com</a>  | Mr. Dennis Leonard               |   | One Energy Plaza               | Detroit, MI 48226                      | 313-235-8714 | <a href="mailto:leonardd@dteenergy.com">leonardd@dteenergy.com</a>               | Utility               | Regional Utility      | Southern Lower Michigan | Michigan           |
| Great Lakes Outdoors Foundation / Michigan United Conservation Clubs (MUCC) | <a href="http://www.grloutdoors.org/listing.php?id=2972">http://www.grloutdoors.org/listing.php?id=2972</a>   | Mr. Dennis Muchmore              | Executive Director                            | PO Box 30235                   | Lansing, MI 48909                      | 517-371-1041 | n/a  | Organization          | Environment           | Monroe and Wayne        | Michigan           |
| Huron-Clinton Metropark Authority   | <a href="http://www.metroparks.com">www.metroparks.com</a>  | Mr. David C. Moilanen            | Director                                      | 13000 High Ridge Drive         | Brighton, MI 48114-9058                | 810-227-2757 | <a href="mailto:david.moilanen@metroparks.com">david.moilanen@metroparks.com</a> | Regional Organization | Recreation            | Southeast Michigan      | Michigan           |
| Lake Erie Metropark (Huron-Clinton Metropark Authority)                     | <a href="http://www.metroparks.com/metroparks/parks/index_all.aspx?ID=7&amp;r=0">http://www.metroparks.com/metroparks/parks/index_all.aspx?ID=7&amp;r=0</a>                   | Ms. Tonja Jolly                  | Park Operations Manager                       | 32481 W. Jefferson             | Brownstown, MI 48173                   | 734-379-5020 | <a href="mailto:Tonja.Jolly@metroparks.com">Tonja.Jolly@metroparks.com</a>       | Regional Organization | Recreation            | Southeast Michigan      | Michigan           |
| MDEQ - Non-Point Source Grants  | <a href="http://www.michigan.gov/deq/0,1607,7-135-3313_3682_3714---.00.html">http://www.michigan.gov/deq/0,1607,7-135-3313_3682_3714---.00.html</a>                           | Ms. Amy Peterson                 | Grants Program Manager                        | P.O. Box 30458                 | Lansing, MI 48909                      | 517-373-2037 | <a href="mailto:peterona1@michigan.gov">peterona1@michigan.gov</a>               | State                 | Environment           | Monroe and Wayne        | Michigan           |
| MDEQ Southeast Michigan District Office                                     | <a href="http://www.mi.gov/floodplainmanagement">www.mi.gov/floodplainmanagement</a>  | Ms. Maria Zingas                 | District Floodplain Engineer                  | 27700 Donald Court             | Warren, MI 48092-2793                  | 586-753-3872 | <a href="mailto:zingasm@michigan.gov">zingasm@michigan.gov</a>                   | Regulatory            | Floodplain Management | Southeast Michigan      | Michigan           |
| MDEQ Southeast Michigan District Office                                     | <a href="http://www.mi.gov/floodplainmanagement">www.mi.gov/floodplainmanagement</a>  | Mr. Patrick Durack               | District Floodplain Engineer                  | 27700 Donald Court             | Warren, MI 48092-2793                  | 586-753-3865 | <a href="mailto:durackp@michigan.gov">durackp@michigan.gov</a>                   | Regulatory            | Floodplain Management | Southeast Michigan      | Michigan           |
| MDEQ Water Resources Division   | <a href="http://www.mi.gov/hydrology">www.mi.gov/hydrology</a>  | Mr. Byron Lane, P.E.             | Chief, Hydrologic Studies and Dam Safety Unit | PO Box 30458                   | Lansing, MI 48909-7958                 | 517-241-9862 | <a href="mailto:laneb@michigan.gov">laneb@michigan.gov</a>                       | State                 | Floodplain Management | State                   | Michigan           |

| Organization Name   | Organization Website  | Point of Contact      | Title                            | Address   | City, ST Zip           | Phone        | Email  | Group        | Category              | County/State/Watershed | Community                   |
|---|---|-----------------------|----------------------------------|---|------------------------|--------------|--|--------------|-----------------------|------------------------|-----------------------------|
| MDEQ Water Resources Division, Hydrologic Studies and Dam Safety Unit | <a href="http://www.mi.gov/hydrology">www.mi.gov/hydrology</a>  | Ms. Linda Burke, P.E. | Environmental Engineer           | PO Box 30458  | Lansing, MI 48909-7958 | 517-241-3720 | <a href="mailto:burkeL4@michigan.gov">burkeL4@michigan.gov</a>               | State        | Floodplain Management | State                  | Michigan                    |
| MDNR Wildlife Division  | <a href="http://www.michigan.gov/dnr/0,4570,7-153-10370-32867--,00.html">http://www.michigan.gov/dnr/0,4570,7-153-10370-32867--,00.html</a>   | Mr. Zach Cooley       |                                  | Pte. Mouillee State Game Area, 37205 Mouillee Road, Route 2 | Rockwood, MI 48173     | 734-379-9692 | <a href="mailto:CooleyZ@michigan.gov">CooleyZ@michigan.gov</a>               | State        | Wildlife              | Michigan               | Michigan                    |
| Detroit Edison, Monroe Power Plant                                    | <a href="http://www.dteenergy.com/dteEnergyCompany/environment/generation/controls.html">http://www.dteenergy.com/dteEnergyCompany/environment/generation/controls.html</a>                           | Mr. John Kauffman     |                                  | 3500 E. Front St.   | Monroe, MI 48161       | 734-384-2311 | <a href="mailto:KauffmanJ@DTEEnergy.com">KauffmanJ@DTEEnergy.com</a>         | Private      | Power Plant           | Monroe                 | Monroe County               |
| Monroe County Board of Commissioners                                  | <a href="http://www.co.monroe.mi.us/government/departments_offices/board_of_commissioners/index.html">http://www.co.monroe.mi.us/government/departments_offices/board_of_commissioners/index.html</a> | Mr.                   | R.                               | LaMar   | Frederick              |              | <a href="mailto:lfriderickdist9@gmail.com">lfriderickdist9@gmail.com</a>     | County       | Government            | Monroe                 | Monroe County               |
| Monroe County Drain Commissioner's Office                             | <a href="http://www.co.monroe.mi.us/government/departments_offices/drain_commissioner/index.html">http://www.co.monroe.mi.us/government/departments_offices/drain_commissioner/index.html</a>         | Mr. David P. Thompson | Monroe County Drain Commissioner | 1005 South Raisinville Road                                 | Monroe, MI 48161       | 734-240-3101 | n/a  | County       | Drainage              | Monroe                 | Monroe County               |
| Monroe County Emergency Management Department                         | <a href="http://www.co.monroe.mi.us/government/departments_offices/emergency_management/index.html">http://www.co.monroe.mi.us/government/departments_offices/emergency_management/index.html</a>     | Mr. Mark Hammond      | Director                         | 987 S. Raisinville Road                                     | Monroe, MI 48161       | 734-240-3135 | <a href="mailto:monroe.emd@gmail.com">monroe.emd@gmail.com</a>               | County       | Emergency Management  | Monroe                 | Monroe County               |
| River Raisin Watershed Council  | <a href="http://www.riverraisin.org">www.riverraisin.org</a>  | Ms. Gayle Mitchell    | Executive Director               | 1042 Sutton Road, Suite 3                                   | Adrian, MI 49221       | 517-265-5599 | <a href="mailto:gayle.mitchell@comcast.net">gayle.mitchell@comcast.net</a>   | Organization | Environment           | River Raisin Wshed     | Monroe County               |
| Monroe Charter Township   | <a href="http://monroe.lib.mi.us/community_info_monroe_charter_township.htm">http://monroe.lib.mi.us/community_info_monroe_charter_township.htm</a>   | Mr. Alan Barron       | Supervisor                       | 4925 East Dunbar Road                                       | Monroe, MI 48161-9783  | 734-241-5501 | n/a  | Township     | Government            | Monroe                 | Monroe, Charter Township of |
| Monroe Charter Township   | <a href="http://monroe.lib.mi.us/community_info_monroe_charter_township.htm">http://monroe.lib.mi.us/community_info_monroe_charter_township.htm</a>   | Ms. Kim Fortner       | Planning & Zoning                | 4925 East Dunbar Road                                       | Monroe, MI 48161-9783  | 734-241-5501 | n/a  | Township     | Zoning                | Monroe                 | Monroe, Charter Township of |
| Monroe Charter Township   | <a href="http://monroe.lib.mi.us/community_info_monroe_charter_township.htm">http://monroe.lib.mi.us/community_info_monroe_charter_township.htm</a>   | Mr. Mike Black        | Building Official                | 4925 East Dunbar Road                                       | Monroe, MI 48161-9783  | 734-241-5501 | n/a  | Township     | Building              | Monroe                 | Monroe, Charter Township of |
| City of Monroe City Building Office                                   | <a href="http://www.monroemi.gov/Building_1.cfm">http://www.monroemi.gov/Building_1.cfm</a>   | Mr. Joe Lehmann       | Building Official                | 120 E. First Street   | Monroe, MI 48161       | 734-384-9186 | <a href="mailto:joseph.lehmann@monroemi.gov">joseph.lehmann@monroemi.gov</a> | Community    | Building              | Monroe                 | Monroe, City of             |
| City of Monroe City Manager's Office                                  | <a href="http://www.monroemi.gov/City_Manager_1.cfm">http://www.monroemi.gov/City_Manager_1.cfm</a>   | Mr. George Brown      | City Manager                     | 120 E. First Street   | Monroe, MI 48161       | 734-384-9144 | <a href="mailto:george.brown@monroemi.gov">george.brown@monroemi.gov</a>     | Community    | Government            | Monroe                 | Monroe, City of             |
| City of Monroe City Mayor's Office                                    | <a href="http://www.monroemi.gov/Mayor_1.cfm">http://www.monroemi.gov/Mayor_1.cfm</a>   | Mr. Robert Clark      | Mayor                            | 120 E. First Street   | Monroe, MI 48161       | 734-384-9144 | <a href="mailto:robert.clark@monroemi.gov">robert.clark@monroemi.gov</a>     | Community    | Government            | Monroe                 | Monroe, City of             |

| Organization Name                                     | Organization Website  | Point of Contact        | Title                                  | Address  | City, ST Zip             | Phone                 | Email  | Group        | Category                            | County/State/Watershed | Community                    |
|---|---|-------------------------|--|--|--------------------------|-----------------------|--|--------------|-------------------------------------|------------------------|------------------------------|
| City of Monroe Engineering Department                 | <a href="http://www.monroemi.gov/Engineering_1.cfm">http://www.monroemi.gov/Engineering_1.cfm</a>   | Mr. Patrick Lewis       | Director of Engineering                | 120 E. First Street                                      | Monroe, MI 48161         | 734-384-9126          | <a href="mailto:patrick.lewis@monroemi.gov">patrick.lewis@monroemi.gov</a>   | Community    | Engineering                         | Monroe                 | Monroe, City of              |
| Huron River Watershed Council                         | <a href="http://www.hrwc.org">www.hrwc.org</a>  | Ms. Laura Rubon         | Executive Director                     | N. Main Street, Suite 210                                | Ann Arbor, MI 48104      | 734-769-5123 ext. 606 | <a href="mailto:LRubin@hrwc.org">LRubin@hrwc.org</a>                         | Organization | Environment                         | Huron River Watershed  | Monroe, Wayne, and Washtenaw |
| City of River Rouge Building Department               | <a href="http://www.cityofriverrouge.com/">http://www.cityofriverrouge.com/</a>   | Mr. Troy Newman         | Inspector                              | 10600 West Jefferson Ave                                 | River Rouge, MI 48218    | 313-842-4209          | n/a  | Community    | Building                            | Wayne                  | River Rouge, City of         |
| City of River Rouge Community Development Department  | <a href="http://www.cityofriverrouge.com/">http://www.cityofriverrouge.com/</a>   | Mr. Karl Laub           | Community Development Director         | 10601 West Jefferson Ave                                 | River Rouge, MI 48219    | 313-842-4200          | n/a  | Community    | Development                         | Wayne                  | River Rouge, City of         |
| City of River Rouge Mayor's Office                    | <a href="http://www.cityofriverrouge.com/">http://www.cityofriverrouge.com/</a>   | Mr. Michael D. Bowdler  | Mayor                                  | 10602 West Jefferson Ave                                 | River Rouge, MI 48220    | 313-842-4200          | n/a  | Community    | Government                          | Wayne                  | River Rouge, City of         |
| City of Riverview Building and Engineering Department | <a href="http://www.cityofriverview.com/contactus.html">http://www.cityofriverview.com/contactus.html</a>   | Mr. Dave Scurto         | Community Development Director         | 14100 Civic Park Drive                                   | Riverview, MI 48193-7600 | 734-281-4200 x3331    | <a href="mailto:dscurto@cityofriverview.com">dscurto@cityofriverview.com</a> | Community    | Building & Engineering; Development | Wayne                  | Riverview, City of           |
| City of Riverview Department of Public Works          | <a href="http://www.cityofriverview.com/contactus.html">http://www.cityofriverview.com/contactus.html</a>   | Mr. Larry Hunter        | Director                               | 18550 Krause   | Riverview, MI 48193-7600 | 734-281-4270          | <a href="mailto:lhunter@cityofriverview.com">lhunter@cityofriverview.com</a> | Community    | Public Works                        | Wayne                  | Riverview, City of           |
| City of Riverview Mayor's Office                      | <a href="http://www.cityofriverview.com/contactus.html">http://www.cityofriverview.com/contactus.html</a>   | Mr. Tim Durand          | Mayor                                  | 14100 Civic Park Drive                                   | Riverview, MI 48193-7600 | n/a                   | n/a  | Community    | Government                          | Wayne                  | Riverview, City of           |
| City of Rockwood Building & Safety Department         | <a href="http://rockwoodmi.org">http://rockwoodmi.org</a>   | Ms. Karen Chappell      | Building Clerk                         | 32409 Fort Road  | Rockwood, MI 48173       | 734-379-9496          | <a href="mailto:bldgdept@rockwoodmi.org">bldgdept@rockwoodmi.org</a>         | Community    | Building                            | Wayne                  | Rockwood, City of            |
| City of Rockwood City Administrator's Office          | <a href="http://rockwoodmi.org">http://rockwoodmi.org</a>   | Ms. Cindy Trombley      | City Administrator                     | 32409 Fort Road  | Rockwood, MI 48173       | 734-379-9496          | <a href="mailto:rwadmin@comcast.net">rwadmin@comcast.net</a>                 | Community    | Government                          | Wayne                  | Rockwood, City of            |
| City of Rockwood Mayor's Office                       | <a href="http://rockwoodmi.org">http://rockwoodmi.org</a>   | Mr. Gary Guzzi          | Mayor                                  | 32409 Fort Road  | Rockwood, MI 48173       | 734-379-9496          | n/a  | Community    | Government                          | Wayne                  | Rockwood, City of            |
| South Rockwood, Village of                            | <a href="http://monroe.lib.mi.us/community_info_village_south_rockwood.htm">http://monroe.lib.mi.us/community_info_village_south_rockwood.htm</a> | Mr. Hennessey Engineers | Engineer for Village of South Rockwood | 13500 Reeck Rd   | Southgate, MI 48195      | 734-759-1600          |  | Community    | Engineering                         | Monroe                 | South Rockwood, Village of   |
| South Rockwood, Village of                            | <a href="http://monroe.lib.mi.us/community_info_village_south_rockwood.htm">http://monroe.lib.mi.us/community_info_village_south_rockwood.htm</a> | Mr. John Beaudrie       | President                              | South Rockwood Village Hall, 5676 Carleton-Rockwood Road | South Rockwood, MI 48179 | 734-379-3683          | n/a  | Community    | Government                          | Monroe                 | South Rockwood, Village of   |

| Organization Name   | Organization Website  | Point of Contact                | Title                            | Address  | City, ST Zip             | Phone        | Email  | Group     | Category             | County/State/Watershed | Community                  |
|---|---|---------------------------------|----------------------------------|--|--------------------------|--------------|--|-----------|----------------------|------------------------|----------------------------|
| South Rockwood, Village of                                | <a href="http://monroe.lib.mi.us/community_info_village_south_rockwood.htm">http://monroe.lib.mi.us/community_info_village_south_rockwood.htm</a> | Mr. Tillman Taylor              | Building Inspector               | South Rockwood Village Hall, 5676 Carleton-Rockwood Road | South Rockwood, MI 48179 | 734-379-3683 | n/a  | Community | Building             | Monroe                 | South Rockwood, Village of |
| Detroit Water and Sewerage Department                     | <a href="http://www.dwsd.org">www.dwsd.org</a>  | Ms. Sue F. McCormick            | Director                         | 735 Randolph   | Detroit, MI 48226        |              |  | Community | Regional Utility     | Wayne                  | Southeast Michigan         |
| City of Trenton   | <a href="http://www.trentonmi.org/index-Government.asp?Dept_ID=17">http://www.trentonmi.org/index-Government.asp?Dept_ID=17</a>                   | Mr. Timothy Taylor              | Mayor                            | 2800 Third Street  | Trenton, MI 48183        | 734-675-8600 | n/a  | Community | Government           | Wayne                  | Trenton, City of           |
| City of Trenton Building Department                       | <a href="http://www.trentonmi.org/index-Dept.asp?Dept_ID=1">http://www.trentonmi.org/index-Dept.asp?Dept_ID=1</a>                                 | Mr. Virgil Maiani               | Building Official                | 2800 Third Street  | Trenton, MI 48183        | 734-675-8251 | <a href="mailto:vmaiani@trenton-mi.com">vmaiani@trenton-mi.com</a> | Community | Building             | Wayne                  | Trenton, City of           |
| City of Trenton City Administrator's Office               | <a href="http://www.trentonmi.org/index-Dept.asp?Dept_ID=2">http://www.trentonmi.org/index-Dept.asp?Dept_ID=2</a>                                 | Mr. Jim Wagner                  | City Administrator               | 2800 Third Street  | Trenton, MI 48183        | 734-675-6500 | <a href="mailto:jwagner@trenton-mi.com">jwagner@trenton-mi.com</a> | Community | Government           | Wayne                  | Trenton, City of           |
| City of Trenton Emergency Management Department           | <a href="http://www.trentonmi.org/index-Dept.asp?Dept_ID=9">http://www.trentonmi.org/index-Dept.asp?Dept_ID=9</a>                                 | Mr. Paul L. Haley               | Emergency Management Coordinator | 2800 Third Street  | Trenton, MI 48183        | 734-675-6500 | <a href="mailto:phaley@trenton-mi.com">phaley@trenton-mi.com</a>   | Community | Emergency Management | Wayne                  | Trenton, City of           |
| City of Trenton Engineering Department                    | <a href="http://www.trentonmi.org/index-Dept.asp?Dept_ID=10">http://www.trentonmi.org/index-Dept.asp?Dept_ID=10</a>                               | Mr. William R. Hogan, P.E       | City Engineer                    | 2800 Third Street  | Trenton, MI 48183        | 734-675-8251 | <a href="mailto:wrhogan@trenton-mi.com">wrhogan@trenton-mi.com</a> | Community | Engineering          | Wayne                  | Trenton, City of           |
| Wayne County – Homeland Security and Emergency Management | <a href="http://www.co.wayne.mi.us/hsem.htm">http://www.co.wayne.mi.us/hsem.htm</a>   | Mr. James Buford                | Director                         | 10250 Middlebelt Road                                    | Romulus, MI 48242        | 734-942-5289 | n/a  | County    | Emergency Management | Wayne                  | Wayne County               |
| Wayne County Commissioner's Office                        | <a href="http://www.co.wayne.mi.us/commission/index.htm">http://www.co.wayne.mi.us/commission/index.htm</a>                                       | Mr. Gary Woronchak              | Chairman                         | 500 Griswold, Seventh Floor                              | Detroit, MI 48226        | 313-224-2383 | n/a  | County    | Government           | Wayne                  | Wayne County               |
| Wayne County Department of Environmental Services         | <a href="http://www.co.wayne.mi.us/doe.htm">http://www.co.wayne.mi.us/doe.htm</a>   | Ms. Lavonda Jackson             | Deputy Director                  | 415 Clifford St., 7th Floor                              | Detroit, MI 48226        | 313-224-3620 | n/a  | County    | Environment          | Wayne                  | Wayne County               |
| Wayne County Department of Public Services                | <a href="http://www.co.wayne.mi.us/contactus.htm">http://www.co.wayne.mi.us/contactus.htm</a>   | Mr. Hassan A. Saab, Ph.D., P.E. | Director                         | 415 Clifford St., 8th Floor                              | Detroit, MI 48226        | 313-224-7702 | n/a  | County    | Public Services      | Wayne                  | Wayne County               |
| Wayne County Executive Office                             | <a href="http://www.co.wayne.mi.us/contactus.htm">http://www.co.wayne.mi.us/contactus.htm</a>   | Mr. Robert Ficano               | Executive                        | 500 Griswold   | Detroit, MI 48226        | 313-224-0286 | n/a  | County    | Government           | Wayne                  | Wayne County               |

| Organization Name  | Organization Website  | Point of Contact          | Title                                      | Address                 | City, ST Zip         | Phone        | Email  | Group     | Category     | County/State/Watershed | Community           |
|--|---|---------------------------|--|-------------------------|----------------------|--------------|--|-----------|--------------|------------------------|---------------------|
| City of Woodhaven - Building Department                        | <a href="http://www.woodhavenmi.org/Index-Dept.asp?Dept_ID=2">http://www.woodhavenmi.org/Index-Dept.asp?Dept_ID=2</a>   | Mr. John Enos             | Director of Building & Planning            | 21869 West Road         | Woodhaven, MI 48183  | 734-675-4930 | <a href="mailto:JEnos@Woodhavenmi.org">JEnos@Woodhavenmi.org</a>                 | Community | Building     | Wayne                  | Woodhaven, City of  |
| City of Woodhaven - City Administrator's Office                | <a href="http://www.woodhavenmi.org/Index-Dept.asp?Dept_ID=3">http://www.woodhavenmi.org/Index-Dept.asp?Dept_ID=3</a>   | Mr. Mark Kibby            | City Administrator                         | 21869 West Road         | Woodhaven, MI 48183  | 734-675-4932 | <a href="mailto:mkibby@woodhavenmi.org">mkibby@woodhavenmi.org</a>               | Community | Government   | Wayne                  | Woodhaven, City of  |
| City of Woodhaven - Mayor's Office                             | <a href="http://www.woodhavenmi.org/index-home.asp">http://www.woodhavenmi.org/index-home.asp</a>   | Ms. Patricia Odette       | Mayor                                      | 21869 West Road         | Woodhaven, MI 48183  | 734-675-3000 | <a href="mailto:Mayor@WoodhavenMI.org">Mayor@WoodhavenMI.org</a>                 | Community | Government   | Wayne                  | Woodhaven, City of  |
| City of Woodhaven - Public Services and Engineering Department | <a href="http://www.woodhavenmi.org/Index-Dept.asp?Dept_ID=7">http://www.woodhavenmi.org/Index-Dept.asp?Dept_ID=7</a>   | Mr. Scott M. Foland, P.E. | Director of Engineering and Public Service | 21869 West Road         | Woodhaven, MI 48183  | 734-675-4919 | <a href="mailto:sfoland@woodhavenmi.org">sfoland@woodhavenmi.org</a>             | Community | Engineering  | Wayne                  | Woodhaven, City of  |
| City of Wyandotte Department of Community Development          | <a href="http://www.wyandotte.net/Departments/CommunityDevelopment/OverviewCommunityDevelopment.asp">http://www.wyandotte.net/Departments/CommunityDevelopment/OverviewCommunityDevelopment.asp</a> | Mr. Todd Drysdale         |  | 3131 Biddle Ave.        | Wyandotte, MI 48192  | 734-324-4541 | <a href="mailto:tdrysdale@wyan.org">tdrysdale@wyan.org</a>                       | Community | Development  | Wayne                  | Wyandotte, City of  |
| City of Wyandotte Engineering and Building Department          | <a href="http://www.wyandotte.net/Departments/Engineering/OverviewEngineering.asp">http://www.wyandotte.net/Departments/Engineering/OverviewEngineering.asp</a>                                     | Mr. Mark A. Kowalewski    | City Engineer                              | 3131 Biddle Ave.        | Wyandotte, MI 48192  | 734-324-4554 | <a href="mailto:mkowalewski@wyan.org">mkowalewski@wyan.org</a>                   | Community | Engineering  | Wayne                  | Wyandotte, City of  |
| City of Wyandotte Mayor's Office                               | <a href="http://www.wyandotte.net">http://www.wyandotte.net</a>   | Mr. Joseph R. Peterson    | Mayor                                      | 3131 Biddle Ave.        | Wyandotte, MI 48192  | 734-324-4540 | <a href="mailto:mayer@wyan.org">mayer@wyan.org</a>                               | Community | Government   | Wayne                  | Wyandotte, City of  |
| City of Wyandotte Planning Commission                          | <a href="http://www.wyandotte.net/Government/Boards/PlanningCommission.asp">http://www.wyandotte.net/Government/Boards/PlanningCommission.asp</a>   | Ms. Elizabeth Krimmel     | Chair                                      | 3131 Biddle Ave.        | Wyandotte, MI 48192  | 734-324-4555 | <a href="mailto:kroberts@wyan.org">kroberts@wyan.org</a>                         | Community | Planning     | Wayne                  | Wyandotte, City of  |
| Melvindale, City of  | <a href="http://www.melvindale.org/">http://www.melvindale.org/</a>   | Ms. Joan Luke             | Building Department                        | 3100 Oakwood Boulevard, | Melvindale, MI 48122 | 313.429.1060 | <a href="mailto:building@melvindale.org">building@melvindale.org</a>             | Community | Building     | Wayne                  | Melvindale, City of |
| Melvindale, City of  | <a href="http://www.melvindale.org/">http://www.melvindale.org/</a>   | Mr. Joe Owens             | Director of Department of Public Work      | 3315 Greenfield Road    | Melvindale, MI 48122 | 313.429.1080 | <a href="mailto:commissioner@melvindale.org">commissioner@melvindale.org</a>     | Community | Public Works | Wayne                  | Melvindale, City of |
| Melvindale, City of  | <a href="http://www.melvindale.org/">http://www.melvindale.org/</a>   | Ms. Stacy I. Striz        | Mayor                                      | 3100 Oakwood Boulevard, | Melvindale, MI 48122 | 313.429.1051 | <a href="mailto:mayer@melvindale.org">mayer@melvindale.org</a>                   | Community | Government   | Wayne                  | Melvindale, City of |
| City of Southgate  | <a href="http://southgatemi.org">http://southgatemi.org</a>   | Mr. John Hennessey        | City Engineer                              | 14400 Dix-Toledo Road,  | Southgate, MI 48195  | 734-759-1600 |  | Community | Engineering  | Wayne                  | Southgate, City of  |
| City of Southgate  | <a href="http://southgatemi.org">http://southgatemi.org</a>   | Mr. Joseph G. Kuspa       | Major                                      | 14400 Dix-Toledo Road,  | Southgate, MI 48195  | 734-258-3022 | <a href="mailto:MayorKuspa@ci.southgate.mi.us">MayorKuspa@ci.southgate.mi.us</a> | Community | Government   | Wayne                  | Southgate, City of  |



Attachment A-2  
Discovery Meeting Invitations

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**FEMA**

July 13, 2012

Mr. Richard Reed  
Supervisor, Berlin Charter Township  
8000 Swan View  
Newport, MI 48166-9139

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Reed:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Richard Reed  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

So that we can better prepare for the upcoming Discovery Meeting, we are asking local communities to participate in an Information Exchange conference call and WebEx. This call will provide an overview of FEMA's Risk MAP program and the Discovery process, and will allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more about your community's coastal flood hazard risks and needs, in advance of the Discovery Meeting. The partnership and exchange of data between FEMA, the State of Michigan, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

The Information Exchange conference call is scheduled to occur:

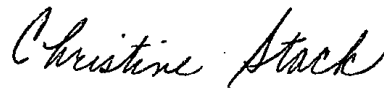
|                 |   |
|-----------------|---|
| Date:           | Thursday, July 26, 2012   |
| Time:           | 10:30 am – 11:30 am   |
| Link to WebEx:  | <a href="https://connect15.uc.att.com/urs/meet/?ExEventID=87175315">https://connect15.uc.att.com/urs/meet/?ExEventID=87175315</a> |
| Call in number: | 1-888-369-1427  |
| Access Code:    | 7175315   |

If you or another community representative is unable to attend the Information Exchange conference call, we ask that you fill out and return the enclosed data request form by July 27, 2012. This is the same data request form that will be discussed during the conference call. The completed form can be sent to:

|             |  |
|-------------|--|
| Via e-mail: | <a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a> |
| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Marv Reaume  
Berlin Charter Township Planning Commission  
8000 Swan View  
Newport, MI 48166-9139

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Reaume:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

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Mr. Marv Reaume  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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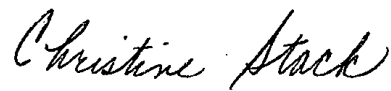
|                 |   |
|-----------------|---|
| Date:           | Thursday, July 26, 2012   |
| Time:           | 10:30 am – 11:30 am   |
| Link to WebEx:  | <a href="https://connect15.uc.att.com/urs/meet/?ExEventID=87175315">https://connect15.uc.att.com/urs/meet/?ExEventID=87175315</a> |
| Call in number: | 1-888-369-1427  |
| Access Code:    | 7175315   |

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|             |  |
|-------------|--|
| Via e-mail: | <a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a> |
| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Andy Linko  
Supervisor, Charter Township of Brownstown  
21313 Telegraph Road  
Brownstown, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Linko:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Andy Linko  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

So that we can better prepare for the upcoming Discovery Meeting, we are asking local communities to participate in an Information Exchange conference call and WebEx. This call will provide an overview of FEMA's Risk MAP program and the Discovery process, and will allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more about your community's coastal flood hazard risks and needs, in advance of the Discovery Meeting. The partnership and exchange of data between FEMA, the State of Michigan, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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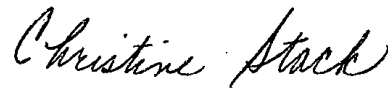
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Chuck Earl  
Building Official, Charter Township of Brownstown Building Department  
21313 Telegraph Road  
Brownstown, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Earl:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Chuck Earl  
July 13, 2012  
Page 2

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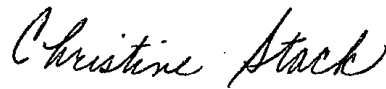
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Mark Gahry  
Director, Charter Township of Brownstown Department of Public Works  
21313 Telegraph Road  
Brownstown, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Gahry:

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Mr. Mark Gahry  
July 13, 2012  
Page 2

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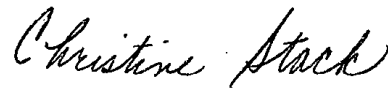
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Barry Murray  
Economic & Community Development Director, City of Dearborn - Economics & Community  
Development Department  
13615 Michigan Ave  
Dearborn, MI 48126

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and  
Wayne Counties in Michigan

Dear Mr. Murray:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Barry Murray  
July 13, 2012  
Page 2

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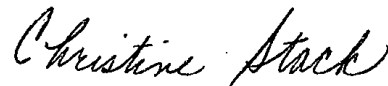
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. John B. O'Reilly, Jr.  
Mayor, City of Dearborn - Mayor's Office  
13615 Michigan Ave  
Dearborn, MI 48126

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. O'Reilly:

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Mr. John O'Reilly  
July 13, 2012  
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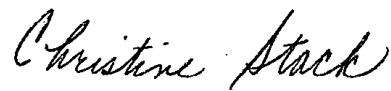
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Dr. John H. Hartig  
Refuge Manager, US Fish and Wildlife Service  
Detroit River International Wildlife Refuge  
DRIWR Large Lakes Research Station  
9311 Groh Road  
Grosse Ile, MI 48138

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Dr. Hartig:

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Dr. John Hartig  
July 13, 2012  
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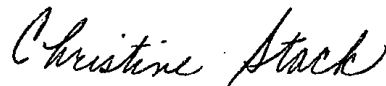
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| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Nathan Ford  
Director, City of Detroit Building, Safety Engineering & Environmental Department  
Two Woodward Ave - Suite 401  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Ford:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. Nathan Ford  
July 13, 2012  
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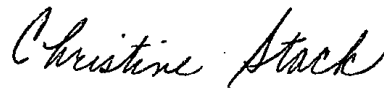
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Daryl R. Lundy  
Director, City of Detroit Homeland Security & Emergency Management  
Two Woodward Ave  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Lundy:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Daryl Lundy  
July 13, 2012  
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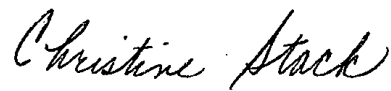
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Dave Bing  
Mayor, City of Detroit Mayor's Office  
2 Woodward Ave # 1126  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Bing:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Dave Bing  
July 13, 2012  
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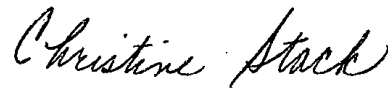
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Robert Anderson  
Director, City of Detroit Planning & Development Department  
65 Cadillac Square, Suite 2300  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Anderson:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Robert Anderson  
July 13, 2012  
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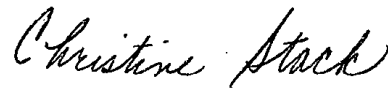
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Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Marcell R. Todd, Jr.  
Director, City of Detroit Planning Commission  
Two Woodward Ave - Suite 202  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Todd:

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Mr. Marcell Todd  
July 13, 2012  
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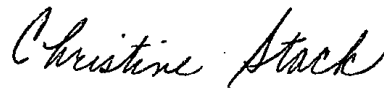
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Joyce Parker  
Emergency Manager, City of Ecorse  
3869 West Jefferson  
Ecorse, MI 48229-1798

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Parker:

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Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Ms. Joyce Parker  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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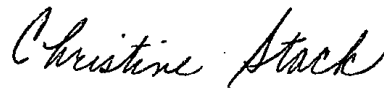
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Terri Capra  
Community Development Manager, City of Ecorse  
3869 West Jefferson  
Ecorse, MI 48229-1798

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Capra:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Ms. Terri Capra  
July 13, 2012  
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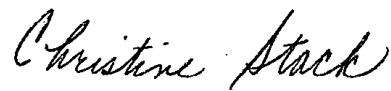
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Jack Durbin  
City Engineer, City of Ecorse Department of Building and Engineering  
3869 West Jefferson  
Ecorse, MI 48229-1798

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Durbin:

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Mr. Jack Durbin  
July 13, 2012  
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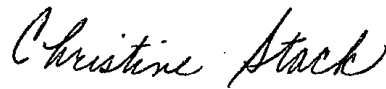
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Bill Frey  
Township Supervisor, Erie Township  
2065 Erie Road, P.O. Box 187  
Erie, Michigan 48133

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Frey:

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Mr. Bill Frey  
July 13, 2012  
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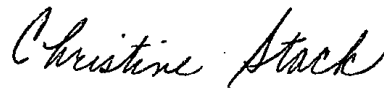
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Michael Demski  
Building/Zoning Official, Erie Township  
2065 Erie Road, P.O. Box 187  
Erie, Michigan 48133

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Demski:

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Mr. Michael Demski  
July 13, 2012  
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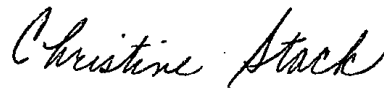
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Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. William Jacobs  
Chairman, Erie Township Planning Commission  
2065 Erie Road, P.O. Box 187  
Erie, Michigan 48133

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Jacobs:

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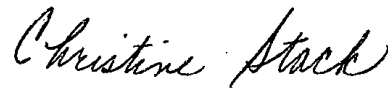
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| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Bernie Ciupak  
Building Inspector, Village of Estral Beach  
7194 Lakeview Boulevard, P.O. Box 107  
Newport, Michigan 48166

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Ciupak:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. Bernie Ciupak  
July 13, 2012  
Page 2

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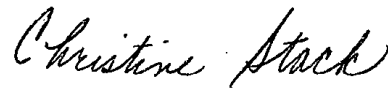
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Danny Swindle  
President, Village of Estral Beach  
7194 Lakeview Boulevard, P.O. Box 107  
Newport, Michigan 48166

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Swindle:

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| Date:     | Thursday, August 9, 2012             |
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| Location: | Woodhaven Community Center           |
| Address:  | 21869 West Road, Woodhaven, MI 48183 |

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Mr. Danny Swindle  
July 13, 2012  
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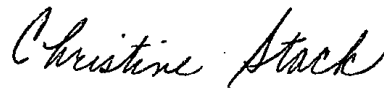
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Ed Dyson  
Dike Coordinator, Village of Estral Beach  
7194 Lakeview Boulevard, P.O. Box 107  
Newport, Michigan 48166

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Dyson:

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Mr. Ed Dyson  
July 13, 2012  
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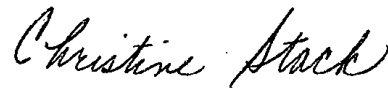
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Bill Vack

Building Director, Building Official and Zoning Administrator, City of Flat Rock - Building & Safety Department  
25500 Gibraltar Rd.  
Flat Rock, MI 48134

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Vack:

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Mr. Bill Vack  
July 13, 2012  
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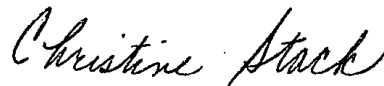
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Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Jonathan Dropiewski  
Mayor, City of Flat Rock - Mayor's Office  
25500 Gibraltar Rd.  
Flat Rock, MI 48134

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Dropiewski:

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July 13, 2012

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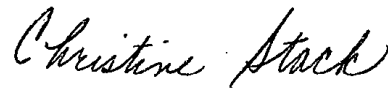
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Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Bruce Hammond  
Director of Public Services, City of Flat Rock - Public Services Department  
25500 Gibraltar Rd.  
Flat Rock, MI 48134

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Hammond:

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Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. Bruce Hammond  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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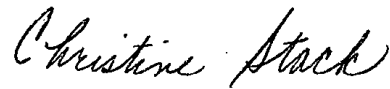
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Annette Hopper  
Zoning Administrator, Frenchtown Township  
2744 Vivian Road  
Monroe, Michigan 48162

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Hopper:

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Ms. Annette Hopper

July 13, 2012

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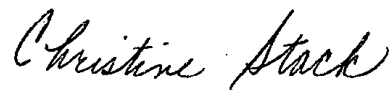
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Clarence L. King  
Building Official, Frenchtown Township  
2744 Vivian Road  
Monroe, Michigan 48162

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. King:

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Your Discovery Meeting is scheduled to occur:

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| Date:     | Thursday, August 9, 2012             |
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| Location: | Woodhaven Community Center           |
| Address:  | 21869 West Road, Woodhaven, MI 48183 |

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Mr. Clarence King  
July 13, 2012  
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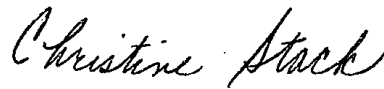
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. James McDevitt  
Supervisor, Frenchtown Township  
2744 Vivian Road  
Monroe, Michigan 48162

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. McDevitt:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. James McDevitt  
July 13, 2012  
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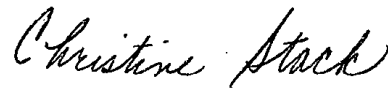
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Christine Stack  
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Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. David Howell  
Chairman, Friends of the Detroit River  
PO Box 725  
Trenton, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Howell:

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Mr. David Howell  
July 13, 2012  
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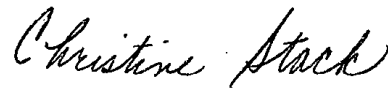
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Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Virgil Maiani  
Building Official, City of Gibraltar Building Department  
29450 Munro Avenue  
Gibraltar, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Maiani:

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Mr. Virgil Maiani  
July 13, 2012  
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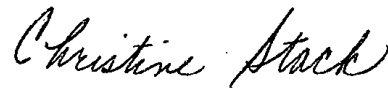
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| Via e-mail: | <a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a> |
| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Mark Kibby  
City Administrator, City of Gibraltar City Administrator's Office  
29450 Munro Avenue  
Gibraltar, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Kibby:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

|           |                                      |
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| Date:     | Thursday, August 9, 2012             |
| Time:     | 2:30 pm to 4:30 pm                   |
| Location: | Woodhaven Community Center           |
| Address:  | 21869 West Road, Woodhaven, MI 48183 |

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Mark Kibby  
July 13, 2012  
Page 2

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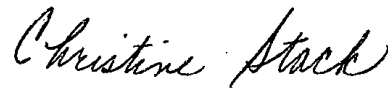
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Linda Sucharski  
Director, City of Gibraltar Department of Public Works  
29450 Munro Avenue  
Gibraltar, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Sucharski:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Ms. Linda Sucharski  
July 13, 2012  
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Jim Gorris  
Mayor, City of Gibraltar Mayor's Office  
29450 Munro Avenue  
Gibraltar, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Gorris:

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Mr. Jim Gorris  
July 13, 2012  
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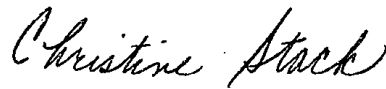
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Brian Loftus  
Supervisor, Township of Grosse Ile  
9601 Groh Rd.  
Grosse Ile, MI 48138

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Loftus:

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Mr. Brian Loftus  
July 13, 2012  
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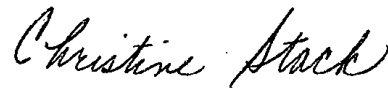
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 13, 2012

Mr. Dale L. Reaume  
Township Manager, Township of Grosse Ile  
9601 Groh Rd.  
Grosse Ile, MI 48138

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Reaume:

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Mr. Dale Reaume  
July 13, 2012  
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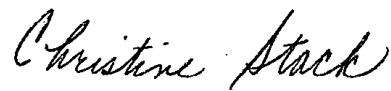
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Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 13, 2012

Mr. Barry Sedlock  
Director, Township of Grosse Ile Department of Public Services  
9601 Groh Rd.  
Grosse Ile, MI 48138

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Sedlock:

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Mr. Barry Sedlock  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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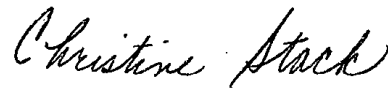
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. John Schweickart  
Chairperson, Township of Grosse Ile Planning Commission  
9601 Groh Rd.  
Grosse Ile, MI 48138

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Schweickart:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. John Schweickart  
July 13, 2012  
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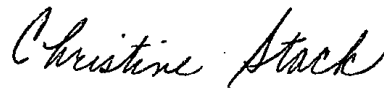
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Charles LaPointe  
Building Inspector, LaSalle Township  
4111 LaPlaisance Road, P.O. Box 46  
LaSalle, MI 48145

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. LaPointe:

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Time: 2:30 pm to 4:30 pm  
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Mr. Charles LaPointe  
July 13, 2012  
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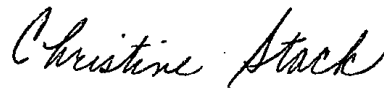
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Larry T. Rutledge  
Supervisor, LaSalle Township  
4111 LaPlaisance Road, P.O. Box 46  
LaSalle, MI 48145

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Rutledge:

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Mr. Larry Rutledge  
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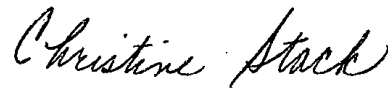
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Dennis Chegash  
Manager, City of Lincoln Park Building and Engineering Department  
1355 Southfield Rd  
Lincoln Park, MI 48146

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Chegash:

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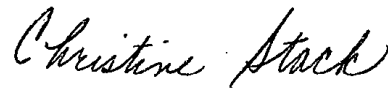
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**FEMA**

July 13, 2012

Mr. Donald Cook  
Director, City of Lincoln Park Community Planning and Development  
3240 Ferris  
Lincoln Park, MI 48146

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Cook:

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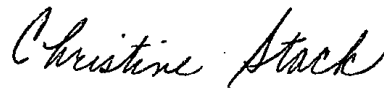
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Bob Bartok  
Director, City of Lincoln Park Department of Public Services  
500 Southfield  
Lincoln Park, MI 48146

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Bartok:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Bob Bartok  
July 13, 2012  
Page 2

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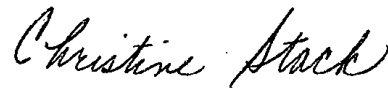
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Patricia DiazKrause  
Mayor, City of Lincoln Park Mayor's Office  
1355 Southfield Rd  
Lincoln Park, MI 48146

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Krause:

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Ms. Patricia Krause  
July 13, 2012  
Page 2

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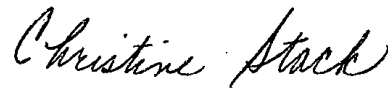
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Julie Sadlowski  
Coordinator, City of Lincoln Park Office of City Management  
1355 Southfield Rd  
Lincoln Park, MI 48146

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Sadlowski:

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Ms. Julie Sadlowski  
July 13, 2012  
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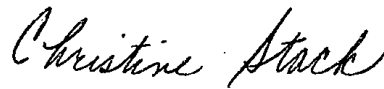
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Greg Stewart  
City Administrator, City of Luna Pier  
4357 Buckeye Street  
Luna Pier, MI 48157

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Stewart:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Greg Stewart  
July 13, 2012  
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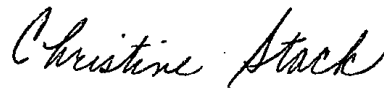
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Mary Liske  
Mayor, City of Luna Pier  
4357 Buckeye Street  
Luna Pier, MI 48157

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Liske:

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Ms. Mary Liske  
July 13, 2012  
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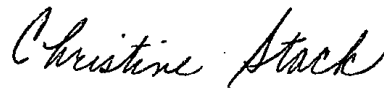
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 13, 2012

Mr. Michael Demski  
Building Official, City of Luna Pier  
4357 Buckeye Street  
Luna Pier, MI 48157

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Demski:

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Mr. Michael Demski  
July 13, 2012  
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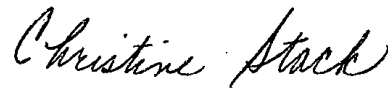
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Mark Fredericks  
Chairperson, City of Luna Pier Planning Commission  
4357 Buckeye Street  
Luna Pier, MI 48157

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Fredericks:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

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Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. Mark Fredericks  
July 13, 2012  
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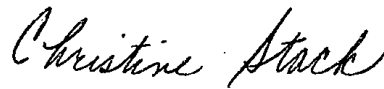
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. John R. Michalski, P.E., CFM  
Applied Science, Inc  
300 River Place, Suite 5400  
Detroit, MI 48207

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Michalski:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. John Michalski  
July 13, 2012  
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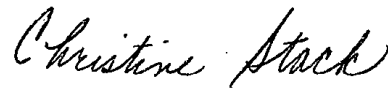
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Ronda Wuycheck  
Chief, DEQ Coastal Management Program  
MDEQ Office of the Great Lakes  
PO Box 30473  
Lansing, MI 48909-7973

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Wuycheck:

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Ms. Ronda Wuycheck  
July 13, 2012  
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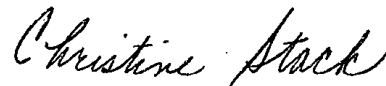
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Dennis Leonard  
DTE Energy, Environmental Management and Resources  
One Energy Plaza  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Leonard:

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Mr. Dennis Leonard  
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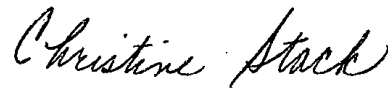
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Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Dennis Muchmore  
Executive Director, Great Lakes Outdoors Foundation / Michigan United Conservation Clubs (MUCC)  
PO Box 30235  
Lansing, MI 48909

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Muchmore:

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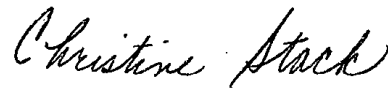
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**FEMA**

July 13, 2012

Mr. David C. Moilanen  
Director, Huron-Clinton Metropark Authority  
13000 High Ridge Drive  
Brighton, MI 48114-9058

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Moilanen:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. David Moilanen  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

So that we can better prepare for the upcoming Discovery Meeting, we are asking local communities to participate in an Information Exchange conference call and WebEx. This call will provide an overview of FEMA's Risk MAP program and the Discovery process, and will allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more about your community's coastal flood hazard risks and needs, in advance of the Discovery Meeting. The partnership and exchange of data between FEMA, the State of Michigan, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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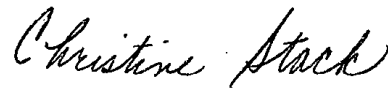
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Tonja Jolly  
Park Operations Manager, Lake Erie Metropark  
(Huron-Clinton Metropark Authority)  
32481 W. Jefferson  
Brownstown, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Jolly:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Ms. Tonja Jolly  
July 13, 2012  
Page 2

engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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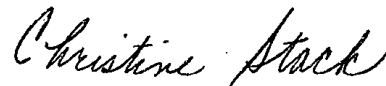
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Amy Peterson  
Grants Program Manager, MDEQ - Non-Point Source Grants  
P.O. Box 30458  
Lansing, MI 48909

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Peterson:

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Ms. Amy Peterson  
July 13, 2012  
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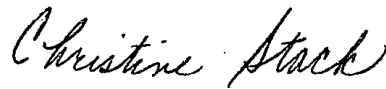
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Maria Zingas  
District Floodplain Engineer, MDEQ Southeast Michigan District Office  
27700 Donald Court  
Warren, MI 48092-2793

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Zingas:

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Ms. Maria Zingas  
July 13, 2012  
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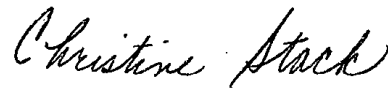
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Patrick Durack  
District Floodplain Engineer, MDEQ Southeast Michigan District Office  
27700 Donald Court  
Warren, MI 48092-2793

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Durack:

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Mr. Patrick Durack  
July 13, 2012  
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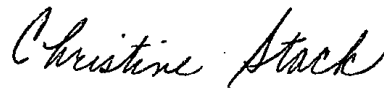
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Byron Lane, P.E.  
Chief, Hydrologic Studies and Dam Safety Unit, MDEQ Water Resources Division  
PO Box 30458  
Lansing, MI 48909-7958

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Lane:

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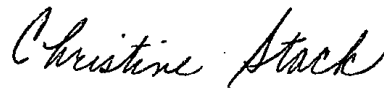
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| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Linda Burke, P.E.  
Environmental Engineer, MDEQ Water Resources Division, Hydrologic Studies and Dam Safety Unit  
PO Box 30458  
Lansing, MI 48909-7958

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Burke:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Ms. Linda Burke  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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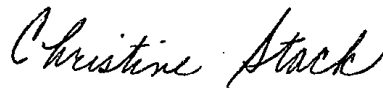
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Zach Cooley  
MDNR Wildlife Division  
Pte. Mouillee State Game Area, 37205 Mouillee Road, Route 2  
Rockwood, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Cooley:

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Mr. Zach Cooley  
July 13, 2012  
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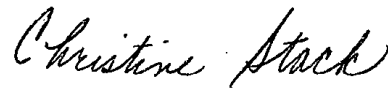
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. John Kauffman  
Detroit Edison, Monroe Power Plant  
3500 E. Front St.  
Monroe, MI 48161

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Kauffman:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. John Kauffman  
July 13, 2012  
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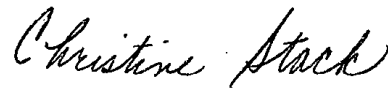
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. R. LaMar Frederick  
Chairman, Monroe County Board of Commissioners  
125 E. Second St.  
Monroe, MI 48161

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Frederick:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Time: 2:30 pm to 4:30 pm  
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Mr. R. Frederick  
July 13, 2012  
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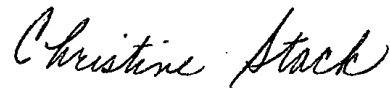
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. David P. Thompson  
Monroe County Drain Commissioner, Monroe County Drain Commissioner's Office  
1005 South Raisinville Road  
Monroe, MI 48161

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Thompson:

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Mr. David Thompson

July 13, 2012

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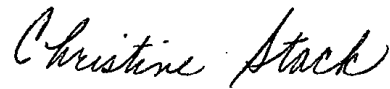
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Christine Stack  
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Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Mark Hammond  
Director, Monroe County Emergency Management Department  
987 S. Raisinville Road  
Monroe, MI 48161

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Hammond:

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. Mark Hammond  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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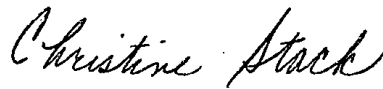
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Gayle Mitchell  
Executive Director, River Raisin Watershed Council  
1042 Sutton Road, Suite 3  
Adrian, MI 49221

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Mitchell:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Ms. Gayle Mitchell  
July 13, 2012  
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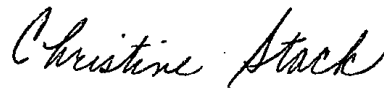
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Alan Barron  
Supervisor, Monroe Charter Township  
4925 East Dunbar Road  
Monroe, MI 48161-9783

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Barron:

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Mr. Alan Barron  
July 13, 2012  
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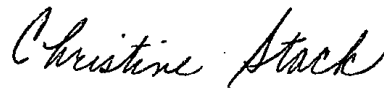
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Kim Fortner  
Planning & Zoning, Monroe Charter Township  
4925 East Dunbar Road  
Monroe, MI 48161-9783

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Fortner:

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| Date:     | Thursday, August 9, 2012             |
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Ms. Kim Fortner  
July 13, 2012  
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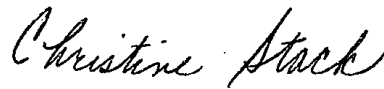
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Mike Black  
Building Official, Monroe Charter Township  
4925 East Dunbar Road  
Monroe, MI 48161-9783

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Black:

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Mr. Mike Black  
July 13, 2012  
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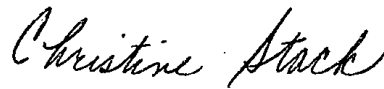
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Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Joe Lehmann  
Building Official, City of Monroe City Building Office  
120 E. First Street  
Monroe, MI 48161

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Lehmann:

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July 13, 2012  
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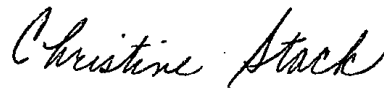
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| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. George Brown  
City Manager, City of Monroe City Manager's Office  
120 E. First Street  
Monroe, MI 48161

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Brown:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. George Brown  
July 13, 2012  
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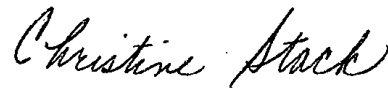
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Robert Clark  
Mayor, City of Monroe City Mayor's Office  
120 E. First Street  
Monroe, MI 48161

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Clark:

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Mr. Robert Clark  
July 13, 2012  
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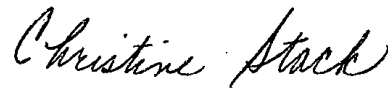
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Patrick Lewis  
Director of Engineering, City of Monroe Engineering Department  
120 E. First Street  
Monroe, MI 48161

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Lewis:

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Mr. Patrick Lewis  
July 13, 2012  
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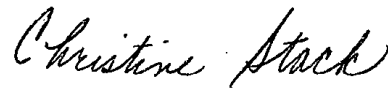
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Laura Rubon  
Executive Director, Huron River Watershed Council  
N. Main Street, Suite 210  
Ann Arbor, MI 48104

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Rubon:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Ms. Laura Rubon  
July 13, 2012  
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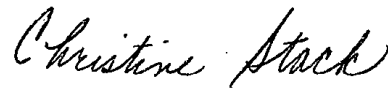
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Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Troy Newman  
Inspector, City of River Rouge Building Department  
10600 West Jefferson Ave  
River Rouge, MI 48218

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Newman:

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July 13, 2012  
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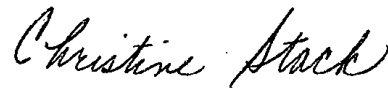
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Karl Laub  
Community Development Director, City of River Rouge Community Development Department  
10601 West Jefferson Ave  
River Rouge, MI 48219

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Laub:

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Mr. Karl Laub  
July 13, 2012  
Page 2

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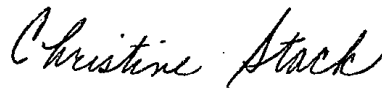
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| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Michael D. Bowdler  
Mayor, City of River Rouge Mayor's Office  
10602 West Jefferson Ave  
River Rouge, MI 48220

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Bowdler:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Michael Bowdler  
July 13, 2012  
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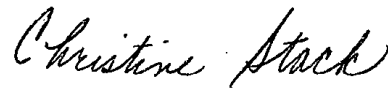
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Dave Scurto  
Community Development Director, City of Riverview Building and Engineering Department  
14100 Civic Park Drive  
Riverview, MI 48193-7600

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Scurto:

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Mr. Dave Scurto  
July 13, 2012  
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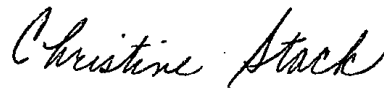
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Larry Hunter  
Director, City of Riverview Department of Public Works  
18550 Krause  
Riverview, MI 48193-7600

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Hunter:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Larry Hunter  
July 13, 2012  
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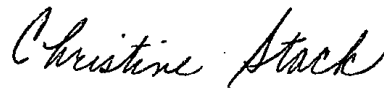
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Tim Durand  
Mayor, City of Riverview Mayor's Office  
14100 Civic Park Drive  
Riverview, MI 48193-7600

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Durand:

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Mr. Tim Durand  
July 13, 2012  
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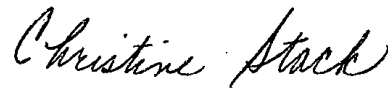
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Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Karen Chappell  
Building Clerk, City of Rockwood Building & Safety Department  
32409 Fort Road  
Rockwood, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Chappell:

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Ms. Karen Chappell

July 13, 2012

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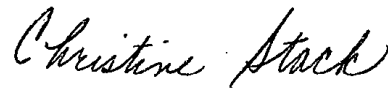
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Cindy Trombley  
City Administrator, City of Rockwood City Administrator's Office  
32409 Fort Road  
Rockwood, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Trombley:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Ms. Cindy Trombley  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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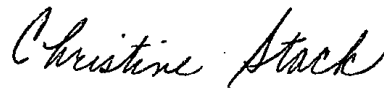
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Gary Guzzi  
Mayor, City of Rockwood Mayor's Office  
32409 Fort Road  
Rockwood, MI 48173

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Guzzi:

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Mr. Gary Guzzi  
July 13, 2012  
Page 2

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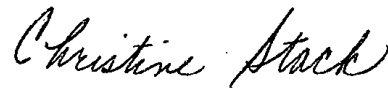
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Hennessey Engineers  
Engineer for Village of South Rockwood, South Rockwood, Village of  
13500 Reeck Rd  
Southgate, MI 48195

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Engineers:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Your Discovery Meeting is scheduled to occur:

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Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. Hennessey Engineers  
July 13, 2012  
Page 2

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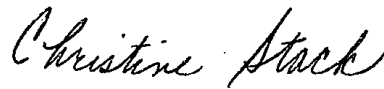
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. John Beaudrie  
President, South Rockwood, Village of  
South Rockwood Village Hall, 5676 Carleton-Rockwood Road  
South Rockwood, MI 48179

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Beaudrie:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. John Beaudrie  
July 13, 2012  
Page 2

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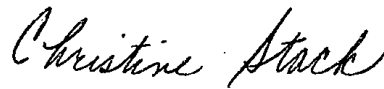
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Tillman Taylor  
Building Inspector, South Rockwood, Village of  
South Rockwood Village Hall, 5676 Carleton-Rockwood Road  
South Rockwood, MI 48179

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Taylor:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Tillman Taylor  
July 13, 2012  
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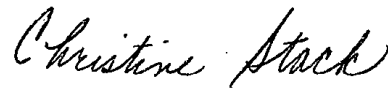
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Sue F. McCormick  
Director, Detroit Water and Sewerage Department  
735 Randolph  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. McCormick:

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Ms. Sue McCormick  
July 13, 2012  
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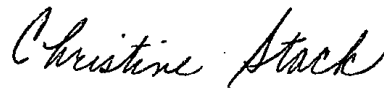
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Timothy Taylor  
Mayor, City of Trenton  
2800 Third Street  
Trenton, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Taylor:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Timothy Taylor  
July 13, 2012  
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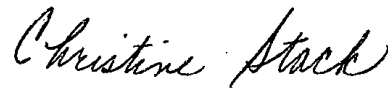
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 13, 2012

Mr. Virgil Maiani  
Building Official, City of Trenton Building Department  
2800 Third Street  
Trenton, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Maiani:

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Mr. Virgil Maiani  
July 13, 2012  
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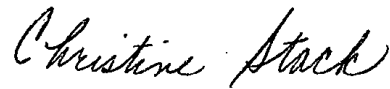
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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**FEMA**

July 13, 2012

Mr. Jim Wagner  
City Administrator, City of Trenton City Administrator's Office  
2800 Third Street  
Trenton, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

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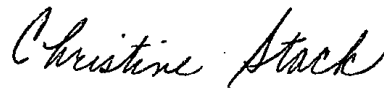
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Mitigation Division, FEMA Region V

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**FEMA**

July 13, 2012

Mr. Paul L. Haley  
Emergency Management Coordinator, City of Trenton Emergency Management Department  
2800 Third Street  
Trenton, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Haley:

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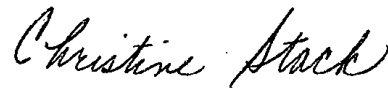
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**FEMA**

July 13, 2012

Mr. William R. Hogan, P.E.  
City Engineer, City of Trenton Engineering Department  
2800 Third Street  
Trenton, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Hogan:

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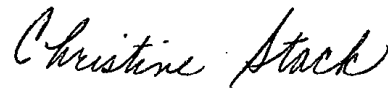
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**FEMA**

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Mr. James Buford  
Director, Wayne County – Homeland Security and Emergency Management  
10250 Middlebelt Road  
Romulus, MI 48242

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Buford:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study



Mr. James Buford  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

So that we can better prepare for the upcoming Discovery Meeting, we are asking local communities to participate in an Information Exchange conference call and WebEx. This call will provide an overview of FEMA's Risk MAP program and the Discovery process, and will allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more about your community's coastal flood hazard risks and needs, in advance of the Discovery Meeting. The partnership and exchange of data between FEMA, the State of Michigan, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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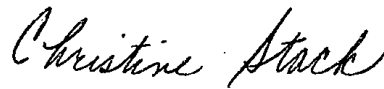
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| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Gary Woronchak  
Chairman, Wayne County Commissioner's Office  
500 Griswold, Seventh Floor  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Woronchak:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Gary Woronchak  
July 13, 2012  
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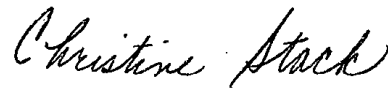
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Lavonda Jackson  
Deputy Director, Wayne County Department of Environmental Services  
415 Clifford St., 7th Floor  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Jackson:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Your Discovery Meeting is scheduled to occur:

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Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Ms. Lavonda Jackson  
July 13, 2012  
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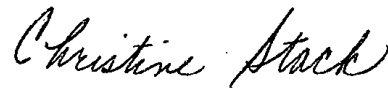
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Hassan A. Saab, Ph.D., P.E.  
Director, Wayne County Department of Public Services  
415 Clifford St., 8th Floor  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Saab:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Hassan Saab  
July 13, 2012  
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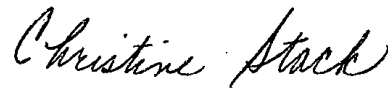
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Robert Ficano  
Executive, Wayne County Executive Office  
500 Griswold  
Detroit, MI 48226

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Ficano:

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Mr. Robert Ficano  
July 13, 2012  
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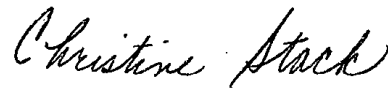
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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**FEMA**

July 13, 2012

Mr. John Enos  
Director of Building & Planning, City of Woodhaven - Building Department  
21869 West Road  
Woodhaven, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Enos:

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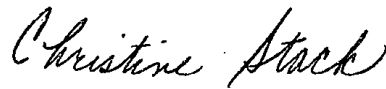
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| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Mark Kibby  
City Administrator, City of Woodhaven - City Administrator's Office  
21869 West Road  
Woodhaven, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Kibby:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. Mark Kibby  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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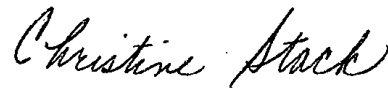
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Patricia Odette  
Mayor, City of Woodhaven - Mayor's Office  
21869 West Road  
Woodhaven, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Odette:

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Ms. Patricia Odette  
July 13, 2012  
Page 2

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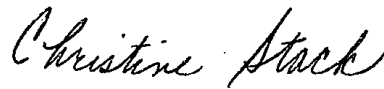
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Scott M. Foland, P.E.  
Director of Engineering and Public Service, City of Woodhaven - Public Services and Engineering  
Department  
21869 West Road  
Woodhaven, MI 48183

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Foland:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Scott Foland  
July 13, 2012  
Page 2

engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

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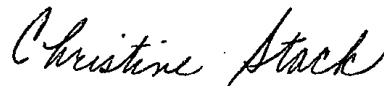
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Todd Drysdale  
City of Wyandotte Department of Community Development  
3131 Biddle Ave.  
Wyandotte, MI 48192

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Drysdale:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

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Mr. Todd Drysdale  
July 13, 2012  
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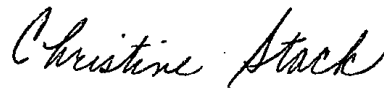
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Mark A. Kowalewski  
City Engineer, City of Wyandotte Engineering and Building Department  
3131 Biddle Ave.  
Wyandotte, MI 48192

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Kowalewski:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

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Mr. Mark Kowalewski  
July 13, 2012  
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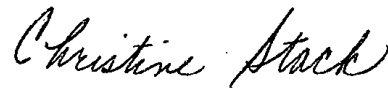
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Mr. Joseph R. Peterson  
Mayor, City of Wyandotte Mayor's Office  
3131 Biddle Ave.  
Wyandotte, MI 48192

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Mr. Peterson:

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Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study

Mr. Joseph Peterson  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

So that we can better prepare for the upcoming Discovery Meeting, we are asking local communities to participate in an Information Exchange conference call and WebEx. This call will provide an overview of FEMA's Risk MAP program and the Discovery process, and will allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more about your community's coastal flood hazard risks and needs, in advance of the Discovery Meeting. The partnership and exchange of data between FEMA, the State of Michigan, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

The Information Exchange conference call is scheduled to occur:

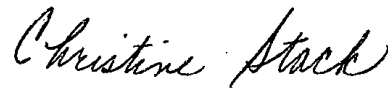
|                 |   |
|-----------------|---|
| Date:           | Thursday, July 26, 2012   |
| Time:           | 10:30 am – 11:30 am   |
| Link to WebEx:  | <a href="https://connect15.uc.att.com/urs/meet/?ExEventID=87175315">https://connect15.uc.att.com/urs/meet/?ExEventID=87175315</a> |
| Call in number: | 1-888-369-1427  |
| Access Code:    | 7175315   |

If you or another community representative is unable to attend the Information Exchange conference call, we ask that you fill out and return the enclosed data request form by July 27, 2012. This is the same data request form that will be discussed during the conference call. The completed form can be sent to:

|             |  |
|-------------|--|
| Via e-mail: | <a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a> |
| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form



**FEMA**

July 13, 2012

Ms. Elizabeth Krimmel  
Chair, City of Wyandotte Planning Commission  
3131 Biddle Ave.  
Wyandotte, MI 48192

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk for Monroe and Wayne Counties in Michigan

Dear Ms. Krimmel:

The Federal Emergency Management Agency (FEMA) is conducting a comprehensive study of flood hazards for Lake Erie and the rest of the United States Great Lakes through FEMA's Risk Mapping, Assessment, and Planning (MAP) Program. Data from this study will eventually be used to convey coastal flood hazard risk through revised Flood Insurance Rate Maps (FIRMs), also known as regulatory products, and new risk planning and assessment products and datasets, also referred to as non-regulatory products and datasets. Please see enclosed Risk MAP Flood Risk Products Fact Sheet. More information about the Great Lakes Coastal Flood Study may be found at <http://www.greatlakescoast.org>.

The goal of Risk MAP is to support actions that make communities safer from flooding. The Risk MAP program wants to achieve continued improvement of flood hazard information for the National Flood Insurance Program (NFIP); to promote increased awareness and understanding of flood risk; to increase community engagement; and to identify and support of actions that local stakeholders can take to reduce natural hazard risks. For additional information on the Risk MAP Program, please visit [http://www.fema.gov/plan/prevent/fhm/rm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/rm_main.shtm).

The first phase of the Risk MAP process is Discovery. Through Discovery, input provided by communities will help FEMA to better understand local coastal flood risk data and needs, and characterize local conditions that contribute to coastal flood risk.

Your Discovery Meeting is scheduled to occur:

Date: Thursday, August 9, 2012  
Time: 2:30 pm to 4:30 pm  
Location: Woodhaven Community Center  
Address: 21869 West Road, Woodhaven, MI 48183

Please save this date on your calendar. At the meeting, we will review the coastal flood risk data we have gathered to date and discuss your community's coastal floodplains, mitigation plan and projects, coastal flood risk concerns, and coastal floodplain management activities. This discussion will allow us to better identify your community's coastal flood hazard needs and subsequent Risk MAP regulatory and non-regulatory products and datasets that can be delivered during the Risk MAP project. We will also discuss how the coastal flood risks and needs are related to mapping, risk assessment, Hazard Mitigation planning, and grant programs available to eligible communities. To best facilitate this discussion, we would like to request your help in inviting community leaders, emergency managers, GIS specialists, engineers, outreach specialists, and local planners to the meeting. Please RSVP to FEMA's study



Ms. Elizabeth Krimmel  
July 13, 2012  
Page 2

contractor (RAMPP) Amelia Vincent at (301) 820-3186 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 27, 2012.

So that we can better prepare for the upcoming Discovery Meeting, we are asking local communities to participate in an Information Exchange conference call and WebEx. This call will provide an overview of FEMA's Risk MAP program and the Discovery process, and will allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more about your community's coastal flood hazard risks and needs, in advance of the Discovery Meeting. The partnership and exchange of data between FEMA, the State of Michigan, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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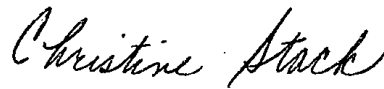
|                 |   |
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| Link to WebEx:  | <a href="https://connect15.uc.att.com/urs/meet/?ExEventID=87175315">https://connect15.uc.att.com/urs/meet/?ExEventID=87175315</a> |
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| Via e-mail: | <a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a> |
| Or by mail: | Amelia Vincent, c/o RAMPP<br>12420 Milestone Center Drive, Suite 150<br>Germantown, MD 20876           |

We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact Mike Hanke at (312) 408-5364 or [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov). We look forward to discussing this with you during the Information Exchange call and/or seeing you at the upcoming Discovery Meeting.

Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
Community Discovery Coastal Data Request Form

Attachment A-3  
Information Exchange Session  
Presentation

---



## Information Exchange Session for Lake Erie Discovery

Monroe and Wayne Counties, Michigan  
July 26, 2012  
10:30 am - 11:30 am



Metropark Harbor of Refuge,

**RiskMAP**  
Increasing Resilience Together



## Purpose of Information Exchange

- Introduction to Risk MAP
- Introduction to Great Lakes Flood Study and Discovery
- Learn more about your areas of concern, coastal flood risk, and coastal mitigation
- Bring the right people to the table early
- Identify data gaps



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## Risk MAP (Mapping, Assessment, and Planning) Vision



### Goals

1. Address gaps in flood hazard data
2. Increase risk awareness to encourage risk reduction
3. Risk-based Mitigation Planning resulting in risk reduction actions
4. Enhanced digital platform to improve communication and sharing of risk data
5. Align programs and develop synergies



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## Overview of Great Lakes Coastal Flood Study



- Latest models, data, and technology
- Deliver updated flood maps and flood risk datasets
- Equip Federal Agencies, eight States and hundreds of coastal communities with data and planning tools to facilitate actions to enhance resiliency of the Great Lakes ecosystem



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## Hazard Mitigation Resources, Strategies & Actions



- Recent community hazard mitigation experiences?
  - Public Works
  - Building Standards
  - Community Planning and Hazard Mitigation Plan Update
  - Communication Processes, GIS, etc.
- New option to document ideas and actions through the FEMA Mitigation Action Form

|   |  |   |   |   |
|---|--|---|---|---|
| <b>Land Use Ordinances</b><br>Zoning, Setbacks, Floodplain Management, etc. | <b>Local Building Codes</b><br>IBC, IRC, Local Regulations, etc. | <b>Mitigation Projects</b><br>Acquisition, Elevation, Floodproofing, etc. | <b>Community Identified Mitigation Programs</b> | <b>Management Best Practices</b><br>Integration of natural hazards into other planning mechanisms |
|---|--|---|---|---|

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## Products and Datasets: Regulatory and Non-regulatory



| Traditional Regulatory Products               | Non-Regulatory Products                           |
|---|---|
| <p><b>DFIRM Database</b></p>                  | <p><b>Flood Risk Database</b></p>                 |
| Subject to statutory due-process requirements | Not subject to statutory due-process requirements |

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# Products and Datasets: Coastal Products in Development



## Erosion



Lake Erie Erosion  
From ODNR website

## Lake Levels



Lake Erie Shoreline  
From Michigan DNR

## Shoreline Feature Dataset



Lake Erie Shoreline  
From ODNR website

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# Risk MAP Overview: Shoreline Features Database



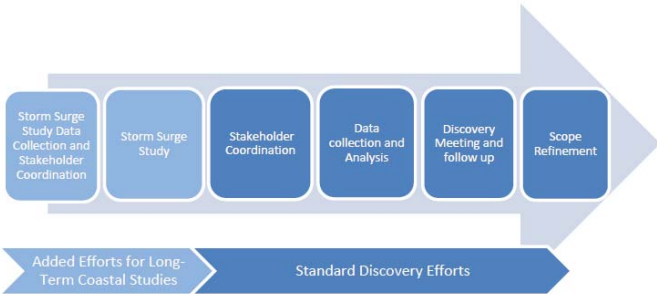
| Shoreline Material | Primary Land Use             | Primary Coast Type | Primary Vegetation            |
|--------------------|------------------------------|--------------------|-------------------------------|
| Sand               | High Density Residential     | High Dune, 10'+    | None                          |
| Cohesive           | Moderate Density Residential | Dune, 2' - 10'     | High Density Shrubs/Trees     |
| Cobble             | Low Density Residential      | High Bluff, 10'+   | Moderate Density Shrubs/Trees |
| Diamicton*         | Commercial/Industrial        | Bluff, 2' - 10'    | Low Density Shrubs/Trees      |
| Shingle            | Park Land                    | Coastal Wetland    | Manicured Lawn                |
| Bedrock            | Farm Land                    | Flat Coast         | Native Vegetation             |
| Artificial         | Forested                     |                    |                               |

- Contains primary and secondary Land Use tables – same for coast type and vegetation.
- Current project collects data at one-mile spacing, for scoping and cost
- Current project does not include field-based reconnaissance or sediment/subsurface soils collection

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# Great Lakes Coastal Flood Study Discovery Process Overview



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# Lake Erie Discovery



- 13 counties
  - Ohio
    - Ashtabula
    - Cuyahoga
    - Erie
    - Lake
    - Lorain
    - Lucas
    - Ottawa
    - Sandusky
  - Michigan
    - Monroe
    - Wayne
  - New York
    - Chautauqua
    - Erie
  - Pennsylvania
    - Erie
- 132 coastal communities



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# Great Lakes Coastal Flood Study Discovery Meeting



| Discovery Meeting Venue    | Discovery Meeting Address              | Discovery Meeting Date, Time               |
|----------------------------|--|--|
| Woodhaven Community Center | 21869 West Road<br>Woodhaven, MI 48183 | Thursday 08/09/2012;<br>2:30 - 4:30 PM EST |

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# Draft Discovery Meeting Agenda



- Why are we here?
- Coastal mapping and flood risk topics to be aware of
- How does this apply to my community?
  - NFIP compliance, hazard mitigation opportunities, and grant funding
- Interactive Session
  - Utilization of Coastal Flood Risk Products for Planning and Mitigation
  - View and Discuss Local Coastal Areas of Concern Using the Discovery Map
  - Discuss Mitigation Action Opportunities and Introduce the Mitigation Action Form
- Wrap Up

*Draft Transect Map Station: Talk to technical staff about draft transects and view draft transects in GIS  
Mitigation Resources, Strategies, and Actions Station: Talk with FEMA and State staff about areas of concern and potential mitigation actions to help reduce risk. Fill out Mitigation Action Form.*

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## Great Lakes Coastal Flood Study Discovery Products



### Final Discovery Report

- Single, comprehensive report for all of Lake Erie, with appendices for Discovery meeting counties
- Includes pre-discovery data, meeting agenda, sign-in sheets, discussion topics, decisions made, etc.



### Final Discovery Maps

- Including feedback from participants
- Visual representation of meeting outcomes

#### Discovery Report

Watershed Name, Watershed Number  
County Name  
Community Number  
County  
Report Number #  
SEND TO  
FEMA

If community names do not fit in the above space, please use the 20-digit Global Unique Identifier (GUID) of your community.

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## Who Should Attend the Discovery Meeting?



- Community Officials
  - CEO and Floodplain Administrators (FPAs)
  - Planners, GIS Specialists, Engineers, Outreach Specialists, Emergency Managers, and Community Leaders
- State Representatives
  - State Hazard Mitigation Officer (SHMO), National Flood Insurance Program (NFIP) Coordinators, Cooperating Technical Partners (CTPs)
- Other Federal Agencies (NOAA, USACE, USGS)
- Regional Planning Agencies
- Great Lakes Organizations

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## Data Request Form Overview



- Contact Information
- Base Map Data
- Coastal Data
- Other Data
- Historic Flood Data
- Risk Assessment
- Flood Mitigation Information
- Community Plans and Projects
- Any Other Comments/ Concerns Based on Local Knowledge

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## Review of Data Collected To Date



- Base Data
  - Draft Transects
  - Shoreline Classification Dataset
  - Bathymetry and Topographic Data
  - Watershed Boundaries
  - Jurisdictional Boundaries
  - Transportation
  - Census Blocks
  - Average Annualized Loss (AAL)
  - Coordinated Needs Management Strategy (CNMS)
  - Coastal Barrier Resources System (CBRS)
  - Declared Disasters

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## Review of Data Collected To Date



- Mitigation
  - Hazard Mitigation Plans
  - Hazard Mitigation Grants Program (HMGP) projects
  - Pre-Disaster Mitigation Program projects
  - Great Lakes Restoration Initiative Projects
- NFIP related Data
  - Community Rating System
  - Community Assistance Visits
  - Flood Insurance Policies and claims
  - Repetitive Loss and Severe Repetitive Loss
  - Letters of Map Change (LOMC) cluster locations

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## Review of Data Collected To Date



- Structures
  - Coastal structures
  - Dams and levees
- Gage Stations
  - Stream gages
  - Wave gages
  - Water level gages

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## Data Gaps



- Topography
- Critically Eroded Beach Areas
- Beach Nourishment/Dune Replacement Projects
- Critical Facilities (in GIS format)
- High Water Marks
- Comprehensive Plans
  - Wayne County
- Local Hazard Mitigation Plans
  - Monroe County
  - Wayne County (expired on June 2012)
  - City of Detroit (expired on March 2012)

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## Data Gaps



- Areas of recent or planned development
- Areas of high growth
- Recent land changes due to development, erosion, etc.
- Known flooding issues not represented on effective FIRMs or listed in CNMS
- On-going mitigation projects

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## Next Steps and Opportunity to Get Involved



- Assessment of data and information provided
- Identification of best practices:
  - Do you have an example of a local coastal mitigation best practice?
- Discovery meeting involvement:
  - Are you interested in participating in Discovery Meeting facilitation?

THANK YOU FOR YOUR PARTICIPATION!

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## Who to Contact



- For more information: <http://www.greatlakescoast.org/>
- Send completed questionnaires to:
  - [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)
- FEMA Region V
  - Ken Hinterlong @ [ken.hinterlong@fema.dhs.gov](mailto:ken.hinterlong@fema.dhs.gov)
  - Mike Hanke @ [michael.hanke@fema.dhs.gov](mailto:michael.hanke@fema.dhs.gov)
- RAMPP
  - Amelia Vincent @ [amelia.vincent@urs.com](mailto:amelia.vincent@urs.com)

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## Questions?



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# **Attachment B: Data Collection**

---

Attachment B-1: Data Request Forms

Attachment B-2: A List of Locally Provided Documents

# Attachment B-1

## Data Request Forms

---





**FEMA**

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community’s resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
By mail: Amelia Vincent, c/o RAMPP  
12420 Milestone Center Drive, Suite 150  
Germantown, MD 20876  
Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

| <b>Contact Information</b> |   |
|----------------------------|---|
| Community/Organization     | Monroe County, Michigan<br>Planning Department  |
| Name:                      | Jeffery S. Boudrie  |
| Title:                     | GIS Specialist  |
| Address:                   | 125 East Second Street<br>Monroe, MI 48161  |
| E-mail:                    | jeff_boudrie@monroemi.org   |
| Phone:                     | 734-240-7378  |
| Contact Preference         | <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Mail |



**FEMA**

Please check off the types of data you will provide by August 3, 2012.

| <b>Base Map Data</b> |   | <i>Please select available data type</i>             |   |
|----------------------|---|--|---|
| x                    | Topography (e.g., LiDAR or contour data)  | <input type="checkbox"/> <i>Hard copy</i>            | <input checked="" type="checkbox"/> <i>Digital</i>  |
| x                    | Property information (e.g., Building footprints, parcel data, tax assessor's data)  | <input checked="" type="checkbox"/> <i>Hard copy</i> | <input checked="" type="checkbox"/> <i>Digital</i><br><small>Building footprints available after October 2012</small> |
| <b>Coastal Data</b>  |   |  |   |
|                      | Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)  | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Coastal features (i.e., dunes and bluffs)   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Shoreline change data   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Locations of beach nourishment or dune restoration projects   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Areas of significant beach or dune erosion  | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Mean high water   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Mean lake level   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
| <b>Other Data</b>    |   |  |   |
|                      | Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Elevated roads  | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Critical facilities   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc. | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |
|                      | Other relevant data   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i>   |



**FEMA**

*Please provide the following information about the community:*

| <b><i>Historical Flood Data</i></b>   |  |   |
|---|--|---|
| Are you aware of any coastal flooding issues not represented on effective FIRMs:  | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain and provide inundation areas of historic flooding events if available. |
| <b><i>Risk Assessment</i></b>   |  |   |
| Does your community have HAZUS-based loss estimates from average annualized loss? | <input type="checkbox"/> yes<br><input type="checkbox"/> no            | If yes, please describe:  |
| Does your community have other risk assessment data?                              | <input type="checkbox"/> yes<br><input type="checkbox"/> no            | If yes, please describe:  |



**FEMA**

| <b><i>Flood Mitigation Information</i></b>   |  |  |
|--|--|--|
| Does your community have a hazard mitigation plan?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, what is the status of the hazard mitigation plan?<br><input type="checkbox"/> being reviewed<br><input type="checkbox"/> it has been adopted<br><input type="checkbox"/> it is currently being updated<br><input type="checkbox"/> it is planned for updates |
| Does the plan reflect any coastal flood hazards?   | <input type="checkbox"/> yes<br><input type="checkbox"/> no            | If yes, please explain:  |
| Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?             | <input type="checkbox"/> yes<br><input type="checkbox"/> no            | If yes, please explain:  |
| Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc. | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe the projects and their locations:  |



FEMA

|   |  |   |
|---|--|---|
| Any specific coastal mitigation projects?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain:   |
| Does your community have experience with coastal flood disasters and flood disaster recovery?   | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | If yes, please explain:   |
| Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific? | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain:<br><br>Floodplain management is managed by the local units of government. |



**FEMA**

|   |  |   |
|---|--|---|
| <p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>                           | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p>   |
| <p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>  | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of these grants projects:</p>                                |
| <p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p> |



**FEMA**

|   |   |
|---|---|
| <p>How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?</p>  | <p><input checked="" type="checkbox"/> high   <input type="checkbox"/> medium   <input type="checkbox"/> low</p>  |
| <p><b><i>Community Plans and Projects</i></b></p>   |   |
| <p>Does your community have a comprehensive plan?</p>   | <p><input checked="" type="checkbox"/> yes<br/><input type="checkbox"/> no</p> <p>If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?</p> <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p>  |
| <p>Does your community's comprehensive plan have a special consideration for coastal areas?</p>   | <p><input checked="" type="checkbox"/> yes<br/><input type="checkbox"/> no</p> <p>If yes, please explain elements/regulations that affect coastal area development.</p>   |
| <p>Does your community have a coastal zone management plan?</p>   | <p><input checked="" type="checkbox"/> yes<br/><input type="checkbox"/> no</p> <p>If yes, please provide a digital or hard copy of the plan.</p>  |
| <p>Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management?</p> | <p><input checked="" type="checkbox"/> yes<br/><input type="checkbox"/> no</p> <p>If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:</p> <p>The Monroe County Planning Commission does not have direct oversight of floodplains, but acts as an advisory board for zoning/planning efforts by local communities.</p> |



FEMA

|   |  |                                 |
|---|--|---------------------------------|
| <p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Any other comments/concerns based on local knowledge:</p>  |  |                                 |



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# FEMA

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
 By mail: Amelia Vincent, c/o RAMPP  
 12420 Milestone Center Drive, Suite 150  
 Germantown, MD 20876  
 Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

| <b>Contact Information</b> |   |
|----------------------------|---|
| Community/Organization     | ERIE Township   |
| Name:                      | Michael Demski  |
| Title:                     | Building official   |
| Address:                   | 2065 Erie Rd.<br>P.O. Box 187<br>Erie, MI 48133   |
| E-mail:                    | mdemski@erietownship.com  |
| Phone:                     | 734-848-9557 ext. 5   |
| Contact Preference         | <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Mail |

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Please check off the types of data you will provide by July 27, 2012.

| <b>Base Map Data</b>     |   | <i>Please select available data type</i>  |   |
|--------------------------|---|---|---|
| <input type="checkbox"/> | Topography (e.g., LiDAR or contour data)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Property information (e.g., Building footprints, parcel data, tax assessor's data)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <b>Coastal Data</b>      |   |   |   |
| <input type="checkbox"/> | Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Coastal features (i.e., dunes and bluffs)   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Shoreline change data   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Locations of beach nourishment or dune restoration projects   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Areas of significant beach or dune erosion  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Mean high water   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Mean lake level   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <b>Other Data</b>        |   |   |   |
| <input type="checkbox"/> | Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Elevated roads  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Critical facilities   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc. | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Other relevant data   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |

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*Please provide the following information about the community:*

| <b>Historical Flood Data</b>  |  |   |
|---|--|---|
| Are you aware of any coastal flooding issues not represented on effective FIRMs:  | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain and provide inundation areas of historic flooding events if available. |
| <b>Risk Assessment</b>  |  |   |
| Does your community have HAZUS-based loss estimates from average annualized loss? | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |
| Does your community have other risk assessment data?                              | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |

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# FEMA

### Flood Mitigation Information

|   |  |   |
|---|--|---|
| <p>Does your community have a hazard mitigation plan?</p>   | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | <p>If yes, what is the status of the hazard mitigation plan?</p> <input type="checkbox"/> being reviewed<br><input checked="" type="checkbox"/> it has been adopted<br><input type="checkbox"/> it is currently being updated<br><input type="checkbox"/> it is planned for updates |
| <p>Does the plan reflect any coastal flood hazards?</p>   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | <p>If yes, please explain:</p>  |
| <p>Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?</p>             | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | <p>If yes, please explain:</p>  |
| <p>Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.</p> | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | <p>If yes, please describe the projects and their locations:</p>  |

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# FEMA

|  |  |  |
|--|--|--|
| <p>Any specific coastal mitigation projects?</p>   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | <p>If yes, please explain:</p>                                       |
| <p>Does your community have experience with coastal flood disasters and flood disaster recovery?</p>   | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | <p>If yes, please explain:</p> <p>Lake Erie Flooding in the past</p> |
| <p>Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific?</p> | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | <p>If yes, please explain:</p> <p>Coordinate with with Planning</p>  |

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# FEMA

|   |  |  |
|---|--|--|
| <p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>                           | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | <p>If yes, please describe:</p> <p><i>elevation of house raising with grants</i></p>   |
| <p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>  | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | <p>If yes, please describe and provide the locations of these grants projects:</p> <p><i>House raising Grant</i></p>                     |
| <p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p> | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | <p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p> <p><i>as above</i></p> |

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|  |  |   |  |                              |
|--|--|---|--|------------------------------|
| How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?  |  | <input type="checkbox"/> high   | <input checked="" type="checkbox"/> medium | <input type="checkbox"/> low |
| <b>Community Plans and Projects</b>  |  |   |  |                              |
| Does your community have a comprehensive plan?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?<br><input type="checkbox"/> yes<br><input type="checkbox"/> no    |  |                              |
| Does your community's comprehensive plan have a special consideration for coastal areas?   | <input type="checkbox"/> yes<br><input type="checkbox"/> no<br><br>N/A | If yes, please explain elements/regulations that affect coastal area development.   |  |                              |
| Does your community have a coastal zone management plan?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please provide a digital or hard copy of the plan.  |  |                              |
| Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management? | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:<br><br>Planning for open space<br>Building / Floodplain<br>code enforcement |  |                              |

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# FEMA

|   |  |                                 |
|---|--|---------------------------------|
| <p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Any other comments/concerns based on local knowledge:</p>  |  |                                 |





**FEMA**

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
 By mail: Amelia Vincent, c/o RAMPP  
 12420 Milestone Center Drive, Suite 150  
 Germantown, MD 20876  
 Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

| <b>Contact Information</b> |  |
|----------------------------|--|
| Community/Organization     | Village of Estral Beach  |
| Name:                      | DANNY SWINDLE                      ED DYSON  |
| Title:                     | PRESIDENT                              DIKE COORDINATOR  |
| Address:                   | 7194 LAKEVIEW BOULEVARD<br>NEWPORT, MI 48166   |
| E-mail:                    | DSWINDLE@msn.com                      DYSONONTHELAKE@gmail.com   |
| Phone:                     | 734-586-7205                              734-586-2516   |
| Contact Preference         | <input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail |



# FEMA

Please check off the types of data you will provide by July 27, 2012.

| <b>Base Map Data</b> |   | <i>Please select available data type</i>  |   |
|----------------------|---|---|---|
|                      | Topography (e.g., LiDAR or contour data)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Property information (e.g., Building footprints, parcel data, tax assessor's data)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
| <b>Coastal Data</b>  |   |   |   |
|                      | Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)  | <input type="checkbox"/> <i>Hard copy</i> | <input checked="" type="checkbox"/> <i>Digital</i><br><i>Select pages</i> |
|                      | Coastal features (i.e., dunes and bluffs)   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Shoreline change data   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Locations of beach nourishment or dune restoration projects   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Areas of significant beach or dune erosion  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Mean high water   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Mean lake level   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
| <b>Other Data</b>    |   |   |   |
|                      | Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available   | <input type="checkbox"/> <i>Hard copy</i> | <input checked="" type="checkbox"/> <i>Digital</i>                        |
|                      | Elevated roads  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Critical facilities   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc. | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |
|                      | Other relevant data   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i>                                   |



**FEMA**

Please provide the following information about the community:

| <b>Historical Flood Data</b>  |  |   |
|---|--|---|
| Are you aware of any coastal flooding issues not represented on effective FIRMs:  | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain and provide inundation areas of historic flooding events if available. |
| <b>Risk Assessment</b>  |  |   |
| Does your community have HAZUS-based loss estimates from average annualized loss? | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |
| Does your community have other risk assessment data?                              | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |



**FEMA**

| <b>Flood Mitigation Information</b>   |   |   |
|---|---|---|
| <p>Does your community have a hazard mitigation plan?</p>   | <p><input type="checkbox"/> yes<br/> <input checked="" type="checkbox"/> no</p> | <p>If yes, what is the status of the hazard mitigation plan?</p> <p><input type="checkbox"/> being reviewed<br/> <input type="checkbox"/> it has been adopted<br/> <input type="checkbox"/> it is currently being updated<br/> <input type="checkbox"/> it is planned for updates</p> <p><i>Monroe County tasked with Preparation - Status unknown.</i></p> |
| <p>Does the plan reflect any coastal flood hazards?</p>   | <p><input type="checkbox"/> yes<br/> <input checked="" type="checkbox"/> no</p> | <p>If yes, please explain:</p>  |
| <p>Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?</p>             | <p><input type="checkbox"/> yes<br/> <input checked="" type="checkbox"/> no</p> | <p>If yes, please explain:</p>  |
| <p>Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.</p> | <p><input checked="" type="checkbox"/> yes<br/> <input type="checkbox"/> no</p> | <p>If yes, please describe the projects and their locations:</p> <p><i>Grant applied for to elevate three (3) Repetitive Flood Claim homes. As of 9/27/12, still awaiting approval.</i></p>   |



# FEMA

|  |  |   |
|--|--|---|
| <p>Any specific coastal mitigation projects?</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please explain:</p>  |
| <p>Does your community have experience with coastal flood disasters and flood disaster recovery?</p>   | <p><input checked="" type="checkbox"/> yes<br/><input type="checkbox"/> no</p> | <p>If yes, please explain:<br/>Flood 03/22/52<br/>Flood 04/09/73<br/>USACE installed "Operation Foresight" structures in ~1973<br/>USACE installed "Advanced Measures" structures in 1986</p> |
| <p>Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific?</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please explain:</p>  |



**FEMA**

|   |  |   |
|---|--|---|
| <p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>                           | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p>   |
| <p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>  | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of these grants projects:</p>  |
| <p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p> | <p><input checked="" type="checkbox"/> yes<br/><input type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p> <p><i>Had ~14 homes elevated from FEMA grant (~2008-2010)</i></p> <p><i>Application pending approval to elevate three (3) Repetitive <del>Ch</del> Flood Plain homes.</i></p> |



**FEMA**

|  |  |  |
|--|--|--|
| How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?  |  | <input type="checkbox"/> high <input type="checkbox"/> medium <input checked="" type="checkbox"/> low  |
| <b>Community Plans and Projects</b>  |  |  |
| Does your community have a comprehensive plan?   | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?<br><input type="checkbox"/> yes<br><input type="checkbox"/> no |
| Does your community's comprehensive plan have a special consideration for coastal areas?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain elements/regulations that affect coastal area development.  |
| Does your community have a coastal zone management plan?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please provide a digital or hard copy of the plan.   |
| Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management? | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:<br><br><u>Ordinances</u>   |



# FEMA

|  |  |                          |
|--|--|--------------------------|
| Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe: |
| Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.) | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe: |
| Any other comments/concerns based on local knowledge:  |  |                          |





**FEMA**

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
 By mail: Amelia Vincent, c/o RAMPP  
 12420 Milestone Center Drive, Suite 150  
 Germantown, MD 20876  
 Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

| <b>Contact Information</b> |  |
|----------------------------|--|
| Community/Organization     | Huron-Clinton Metropolitan Authority   |
| Name:                      | Michael Arens  |
| Title:                     | Engineer   |
| Address:                   | 13000 High Ridge Drive<br>Brighton, MI 48114-9058  |
| E-mail:                    | mike.aren@metroparks.com   |
| Phone:                     | 810-494-6045   |
| Contact Preference         | <input type="checkbox"/> Email <input type="checkbox"/> Phone <input checked="" type="checkbox"/> Mail |



**FEMA**

Please check off the types of data you will provide by July 27, 2012.

| <b>Base Map Data</b> |   | <i>Please select available data type</i>             |   |
|----------------------|---|--|---|
|                      | Topography (e.g., LiDAR or contour data)  | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Property information (e.g., Building footprints, parcel data, tax assessor's data)  | <input checked="" type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <b>Coastal Data</b>  |   |  |   |
|                      | Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)  | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Coastal features (i.e., dunes and bluffs)   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Shoreline change data   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Locations of beach nourishment or dune restoration projects   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Areas of significant beach or dune erosion  | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Mean high water   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Mean lake level   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
| <b>Other Data</b>    |   |  |   |
|                      | Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available   | <input checked="" type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
|                      | Elevated roads  | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Critical facilities   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc. | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |
|                      | Other relevant data   | <input type="checkbox"/> <i>Hard copy</i>            | <input type="checkbox"/> <i>Digital</i> |

Not available by July 27, 2012



**FEMA**

Please provide the following information about the community:

| <b>Historical Flood Data</b>  |  |   |
|---|--|---|
| Are you aware of any coastal flooding issues not represented on effective FIRMs:    | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain and provide inundation areas of historic flooding events if available. |
| <b>Risk Assessment</b>  |  |   |
| * Does your community have HAZUS-based loss estimates from average annualized loss? | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |
| Does your community have other risk assessment data?                                | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |

\* HAZUS=GIS based natural hazard loss estimation software package



**FEMA**

| <b>Flood Mitigation Information</b>   |  |  |
|---|--|--|
| <p>Does your community have a hazard mitigation plan?</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, what is the status of the hazard mitigation plan?</p> <p><input type="checkbox"/> being reviewed<br/><input type="checkbox"/> it has been adopted<br/><input type="checkbox"/> it is currently being updated<br/><input type="checkbox"/> it is planned for updates</p> |
| <p>Does the plan reflect any coastal flood hazards?</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please explain:</p>   |
| <p>Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?</p>             | <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p>            | <p>If yes, please explain:<br/>N/A</p>   |
| <p>Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe the projects and their locations:</p>   |



# FEMA

|   |  |                         |
|---|--|-------------------------|
| Any specific coastal mitigation projects?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain: |
| Does your community have experience with coastal flood disasters and flood disaster recovery?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain: |
| Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific? | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain: |



# FEMA

|   |  |   |
|---|--|---|
| <p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>                           | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p>   |
| <p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>  | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of these grants projects:</p>                                |
| <p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p> |



# FEMA

|  |   |
|--|---|
| How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?  | <input type="checkbox"/> high <input type="checkbox"/> medium <input type="checkbox"/> low  |
| <b>Community Plans and Projects</b>  |   |
| Does your community have a comprehensive plan?   | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no<br>If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?<br><input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no |
| Does your community's comprehensive plan have a special consideration for coastal areas?   | <input type="checkbox"/> yes<br><input type="checkbox"/> no<br>If yes, please explain elements/regulations that affect coastal area development.  |
| Does your community have a coastal zone management plan?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no<br>If yes, please provide a digital or hard copy of the plan.  |
| Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management? | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no<br>If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:<br><br>Open Space Preservation & Recreation Plan                                    |



# FEMA

|   |  |                                 |
|---|--|---------------------------------|
| <p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Any other comments/concerns based on local knowledge:</p>  |  |                                 |





# FEMA

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
By mail: Amelia Vincent, c/o RAMPP  
12420 Milestone Center Drive, Suite 150  
Germantown, MD 20876  
Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, [Amelia.Vincent@URS.com](mailto:Amelia.Vincent@URS.com), (301) 820-3186

| <b>Contact Information</b> |  |
|----------------------------|--|
| Community/Organization     | Rockwood   |
| Name:                      | Cindy Trombley   |
| Title:                     | City Administrator   |
| Address:                   | 32409 Fort Road<br>Rockwood, MI 48173  |
| E-mail:                    | clerk@rockwoodmi.org   |
| Phone:                     | 734 379-9496   |
| Contact Preference         | <input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail |



**FEMA**

Please check off the types of data you will provide by July 27, 2012.

| <b>Base Map Data</b>     |   | <i>Please select available data type</i>  |   |
|--------------------------|---|---|---|
| <input type="checkbox"/> | Topography (e.g., LiDAR or contour data)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Property information (e.g., Building footprints, parcel data, tax assessor's data)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <b>Coastal Data</b>      |   |   |   |
| <input type="checkbox"/> | Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Coastal features (i.e., dunes and bluffs)   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Shoreline change data   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Locations of beach nourishment or dune restoration projects   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Areas of significant beach or dune erosion  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Mean high water   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Mean lake level   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <b>Other Data</b>        |   |   |   |
| <input type="checkbox"/> | Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Elevated roads  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Critical facilities   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc. | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Other relevant data   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |



# FEMA

Please provide the following information about the community:

| <b>Historical Flood Data</b>  |  |   |
|---|--|---|
| Are you aware of any coastal flooding issues not represented on effective FIRMs:  | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain and provide inundation areas of historic flooding events if available. |
| <b>Risk Assessment</b>  |  |   |
| Does your community have HAZUS-based loss estimates from average annualized loss? | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |
| Does your community have other risk assessment data?                              | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |



# FEMA

| <b>Flood Mitigation Information</b>   |  |  |
|---|--|--|
| <p>Does your community have a hazard mitigation plan?</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, what is the status of the hazard mitigation plan?</p> <p><input type="checkbox"/> being reviewed<br/><input type="checkbox"/> it has been adopted<br/><input type="checkbox"/> it is currently being updated<br/><input type="checkbox"/> it is planned for updates</p> |
| <p>Does the plan reflect any coastal flood hazards?</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please explain:</p>   |
| <p>Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?</p>             | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please explain:</p>   |
| <p>Does your community have on-going mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe the projects and their locations:</p>   |



# FEMA

|   |  |                         |
|---|--|-------------------------|
| Any specific coastal mitigation projects?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain: |
| Does your community have experience with coastal flood disasters and flood disaster recovery?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain: |
| Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific? | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain: |



# FEMA

|   |  |   |
|---|--|---|
| <p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>                           | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p>   |
| <p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>  | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of these grants projects:</p>                                |
| <p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p> |



**FEMA**

|   |   |
|---|---|
| <p>How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?</p>  | <p><input type="checkbox"/> high   <input type="checkbox"/> medium   <input type="checkbox"/> low</p>   |
| <p><b>Community Plans and Projects</b></p>  |   |
| <p>Does your community have a comprehensive plan?</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> <p>If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?</p> <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p> |
| <p>Does your community's comprehensive plan have a special consideration for coastal areas?</p>   | <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p> <p>If yes, please explain elements/regulations that affect coastal area development.</p> <p style="text-align: center; font-size: 2em;">N/A</p>   |
| <p>Does your community have a coastal zone management plan?</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> <p>If yes, please provide a digital or hard copy of the plan.</p>  |
| <p>Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management?</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> <p>If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:</p>   |



# FEMA

|   |  |                                 |
|---|--|---------------------------------|
| <p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Any other comments/concerns based on local knowledge:</p>  |  |                                 |





**FEMA**

## Community Discovery Coastal Data Request Form

Thank you for taking the time to complete this questionnaire. We are interested in obtaining coastal-specific data for your community. It will provide important information to help FEMA understand coastal flood risk issues in your community and to work with you in increasing your community's resilience to coastal flooding through implementation of the Risk MAP program. In addition, this form can be used as a way to prepare for the upcoming Discovery Meeting, as the topics on this form will be discussed throughout the meeting.

Once you have completed the questionnaire, please return the form:

Via e-mail: LakeErieCoastalFloodStudy@rampp-team.com

By mail: Amelia Vincent, c/o RAMPP  
12420 Milestone Center Drive, Suite 150  
Germantown, MD 20876

Or by fax: (301) 820-3009

Please provide as much information as possible. If you have any questions about the Discovery process or about completing this questionnaire, please contact:

Amelia Vincent, Amelia.Vincent@URS.com, (301) 820-3186

| Contact Information    |  |
|------------------------|--|
| Community/Organization | Wyandotte, MI.   |
| Name:                  | MARK KOWALEWSKI.   |
| Title:                 | city Engineer  |
| Address:               | 3131 Biddle<br>Wyandotte, MI. 48192  |
| E-mail:                | M.KOWALEWSKI@WYANDOTTE.ORG   |
| Phone:                 | 734-324-4554   |
| Contact Preference     | <input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail |



**FEMA**

Please check off the types of data you will provide by July 27, 2012.

| <b>Base Map Data</b>     |   | <i>Please select available data type</i>  |   |
|--------------------------|---|---|---|
| <input type="checkbox"/> | Topography (e.g., LiDAR or contour data)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Property information (e.g., Building footprints, parcel data, tax assessor's data)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <b>Coastal Data</b>      |   |   |   |
| <input type="checkbox"/> | Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Coastal features (i.e., dunes and bluffs)   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Shoreline change data   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Locations of beach nourishment or dune restoration projects   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Areas of significant beach or dune erosion  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Mean high water   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Mean lake level   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <b>Other Data</b>        |   |   |   |
| <input type="checkbox"/> | Hydraulic structures (e.g., bridges, culverts, levees, dams) with inspection status, if available   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Elevated roads  | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Critical facilities   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Other known hazards with geographical boundaries, i.e., landslide hazard areas, storm surge inundation zones, wildfire hazard areas, etc. | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |
| <input type="checkbox"/> | Other relevant data   | <input type="checkbox"/> <i>Hard copy</i> | <input type="checkbox"/> <i>Digital</i> |



# FEMA

Please provide the following information about the community:

| <b>Historical Flood Data</b>  |  |   |
|---|--|---|
| Are you aware of any coastal flooding issues not represented on effective FIRMs:  | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain and provide inundation areas of historic flooding events if available. |
| <b>Risk Assessment</b>  |  |   |
| Does your community have HAZUS-based loss estimates from average annualized loss? | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |
| Does your community have other risk assessment data?                              | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please describe:  |



**FEMA**

***Flood Mitigation Information***

|  |  |  |
|--|--|--|
| <p>Does your community have a hazard mitigation plan?</p>  | <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p>            | <p>If yes, what is the status of the hazard mitigation plan?</p> <p><input type="checkbox"/> being reviewed<br/><input type="checkbox"/> it has been adopted<br/><input type="checkbox"/> it is currently being updated<br/><input type="checkbox"/> it is planned for updates</p> |
| <p>Does the plan reflect any coastal flood hazards?</p>  | <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p>            | <p>If yes, please explain:</p>   |
| <p>Does the hazard mitigation plan indicate any data deficiencies for flood hazards that could be addressed through a flood study, especially near coastal zones?</p>            | <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p>            | <p>If yes, please explain:</p>   |
| <p>Does your community have ongoing mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe the projects and their locations:</p>   |



# FEMA

|   |  |                         |
|---|--|-------------------------|
| Any specific coastal mitigation projects?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain: |
| Does your community have experience with coastal flood disasters and flood disaster recovery?   | <input type="checkbox"/> yes<br><input checked="" type="checkbox"/> no | If yes, please explain: |
| Does your community coordinate floodplain management programs with programs for the management and planning of open space? If possible, any coastal specific? | <input type="checkbox"/> yes<br><input type="checkbox"/> no            | If yes, please explain: |



# FEMA

|   |   |   |
|---|---|---|
| <p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>                           | <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p> | <p>If yes, please describe:</p>   |
| <p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>  | <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of these grants projects:</p>                                |
| <p>Has your community applied for FEMA Hazard Mitigation Grants program or other mitigation funds (USACE, NRCS, USGS, state Hazard Mitigation officer, etc.) in the past?</p> | <p><input type="checkbox"/> yes<br/><input type="checkbox"/> no</p> | <p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p> |



**FEMA**

|  |  |  |
|--|--|--|
| How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?  |  | <input checked="" type="checkbox"/> high <input type="checkbox"/> medium <input type="checkbox"/> low  |
| <b>Community Plans and Projects</b>  |  |  |
| Does your community have a comprehensive plan?   | <input type="checkbox"/> yes<br><input type="checkbox"/> no            | If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?<br><input type="checkbox"/> yes<br><input type="checkbox"/> no |
| Does your community's comprehensive plan have a special consideration for coastal areas?   | <input type="checkbox"/> yes<br><input type="checkbox"/> no            | If yes, please explain elements/regulations that affect coastal area development.  |
| Does your community have a coastal zone management plan?   | <input type="checkbox"/> yes<br><input type="checkbox"/> no            | If yes, please provide a digital or hard copy of the plan.   |
| Does your community have planning staff or a planning/zoning commission and other measures, such as ordinances, administrative plans, or other programs contributing to effective administration of floodplain zoning, building codes, open space preservation, and coastal zone management? | <input checked="" type="checkbox"/> yes<br><input type="checkbox"/> no | If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:  |



# FEMA

|   |  |                                 |
|---|--|---------------------------------|
| <p>Does your community have areas of recent or planned development/re-development and areas of high growth or other natural land changes (e.g., wildfires or landslides):</p>   | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Are there any locations of other ongoing studies or projects and studied areas that have been modified since the effective map and require an updated study (e.g., highway improvement, seawall improvement, etc.)</p> | <p><input type="checkbox"/> yes<br/><input checked="" type="checkbox"/> no</p> | <p>If yes, please describe:</p> |
| <p>Any other comments/concerns based on local knowledge:</p>  |  |                                 |



## Attachment B-2

# A List of Locally Provided Documents

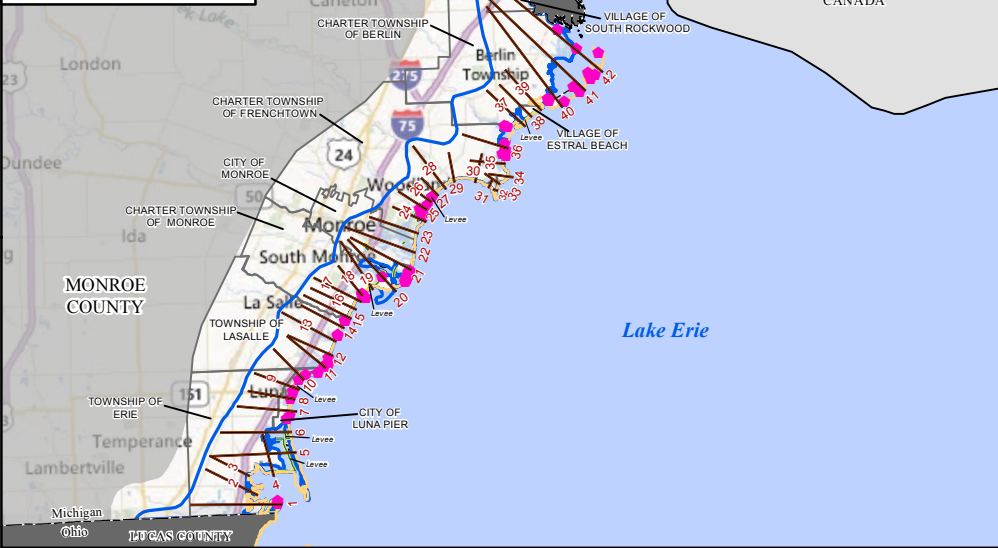
**List of Locally Provided Data**

| <b>Community</b>         | <b>County</b> | <b>State</b> | <b>Data</b>  |
|--------------------------|---------------|--------------|--|
| Estral Beach, Village of | Monroe        | MI           | USACE Dike Inspection Report, dated 2010, Report in PDF  |
| Estral Beach, Village of | Monroe        | MI           | USACE Flood Mitigation "Advanced Measures Control Program, Village of Estral Beach, Michigan", dated 1991, Report in PDF |
| Monroe County            | Monroe        | MI           | MonRoe County Comprehensive Plan 2010 Update, dated 2009, Report in PDF  |
| Wyandotte, City of       | Wayne         | MI           | City of Wyandotte Ordiances, dated 2011, Report in PDF   |
| Wayne County             | Wayne         | MI           | Wayne County Hazard Mitigation Plan, dated 2005, Report in PDF   |

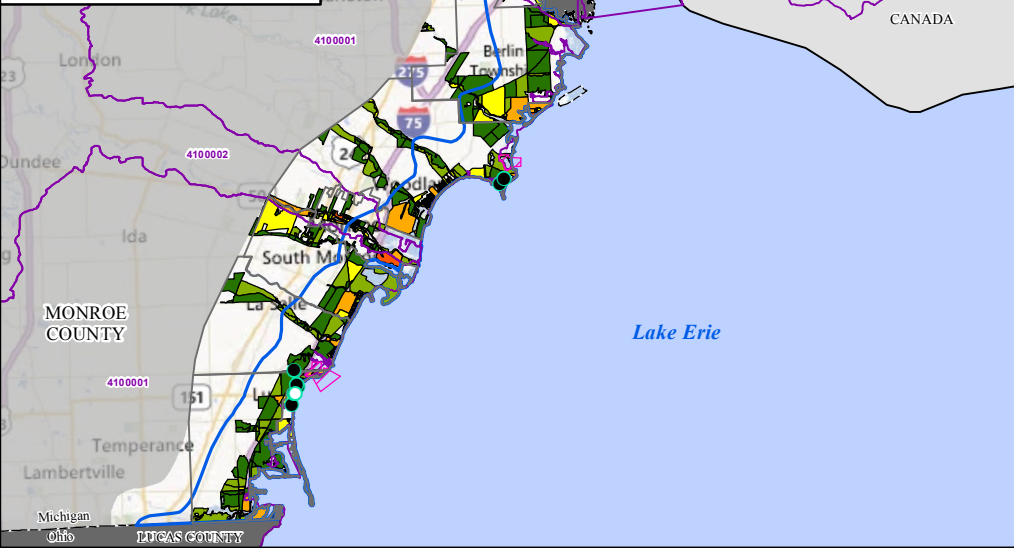
# **Attachment C: Discovery Maps**

---

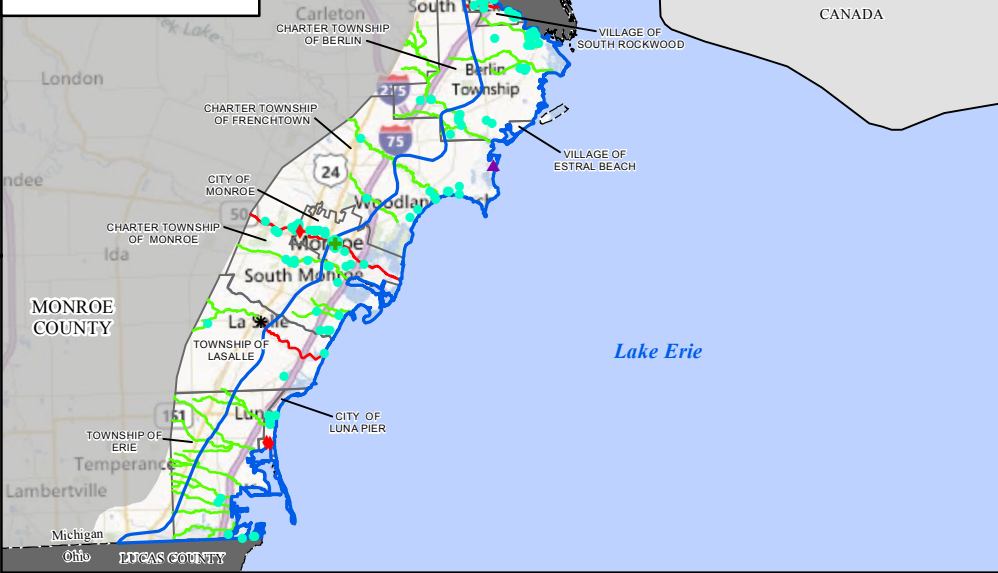
### Coastal Structures and Transects\*



### Average Annualized Loss and CBRS\*\* Data



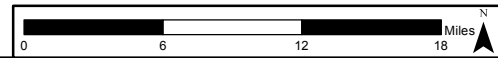
### CNMS\*\*\* Status



| NFIP Total Losses               |              |               |             |             |                     |
|---------------------------------|--------------|---------------|-------------|-------------|---------------------|
| Community                       | Total Losses | Closed Losses | Open Losses | CWOP Losses | Total Payments (\$) |
| Berlin, Charter Township of     | 97           | 72            | 0           | 25          | 267,059             |
| Erie, Township of               | 237          | 200           | 0           | 37          | 746,894             |
| Estral Beach, Village of        | 57           | 45            | 0           | 12          | 175,823             |
| Frenchtown, Charter Township of | 297          | 231           | 0           | 66          | 1,104,708           |
| La Salle, Township of           | 252          | 204           | 0           | 48          | 1,109,401           |
| Luna Pier, City of              | 246          | 202           | 0           | 44          | 1,117,115           |
| Monroe, Charter Township of     | 161          | 120           | 0           | 41          | 823,612             |
| Monroe, City of                 | 88           | 55            | 0           | 33          | 221,903             |
| South Rockwood, Village of      | 2            | 2             | 0           | 0           | 8,745               |

| Declared Disasters |            |        |      |               |                          |
|--------------------|------------|--------|------|---------------|--------------------------|
| State              | Date       | County | Type | Incident Type | Title                    |
| MI                 | 12/01/1972 | Monroe | DR   | Flood         | Severe Storms & Flooding |
| MI                 | 04/12/1973 | Monroe | DR   | Flood         | Severe Storms & Flooding |
| MI                 | 03/29/1982 | Monroe | DR   | Flood         | Flooding                 |

| Hazard Mitigation Action       |                    |                      |   |
|--------------------------------|--------------------|----------------------|---|
| Name of Hazard Mitigation Plan | Plan Approval Date | Plan Expiration Date | Hazard Mitigation Successes   |
| N/A                            | N/A                | N/A                  | Developed a cost estimate of elevating repetitive flood loss structures; primarily flood-prone homes in Estral Beach. |



### MAP SYMBOLOLOGY

|   |   |   |   |
|---|---|---|---|
| <ul style="list-style-type: none"> <li>Transect</li> <li>Shoreline</li> <li>HUC 8</li> <li>CBRS*</li> <li>Levee</li> <li>Discovery Study Area</li> <li>Surrounding County</li> <li>County Boundary</li> <li>Municipal Boundary</li> </ul> | <ul style="list-style-type: none"> <li>Dam</li> <li>LOMC</li> <li>USGS Gage</li> <li>Port</li> <li>Coastal Structure</li> <li>Power Reactor Unit</li> </ul> | <p><b>MONROE COUNTY AAL DATA</b><br/>Total Average Annualized Loss per Census Block</p> <ul style="list-style-type: none"> <li>\$1 - \$2,500</li> <li>\$2,501 - \$100,000</li> <li>\$100,001 - \$250,000</li> <li>\$250,001 - \$750,000</li> <li>\$750,001 - \$2,000,000</li> </ul> | <p><b>CNMS** VALIDATION STATUS</b></p> <ul style="list-style-type: none"> <li>UNVERIFIED</li> <li>UNKNOWN</li> <li>VALID</li> </ul> <p><b>HAZARD MITIGATION GRANT PROJECTS</b></p> <ul style="list-style-type: none"> <li>Acquisition</li> <li>Elevation</li> </ul> |
|---|---|---|---|

\* Flood Hazard Area information is not currently available for Monroe County  
 \*\* CBRS - Coastal Barrier Resources System  
 \*\*\* CNMS - Coordinated Needs Management Strategy

### COASTAL STUDY LOCATOR



## NATIONAL FLOOD INSURANCE PROGRAM

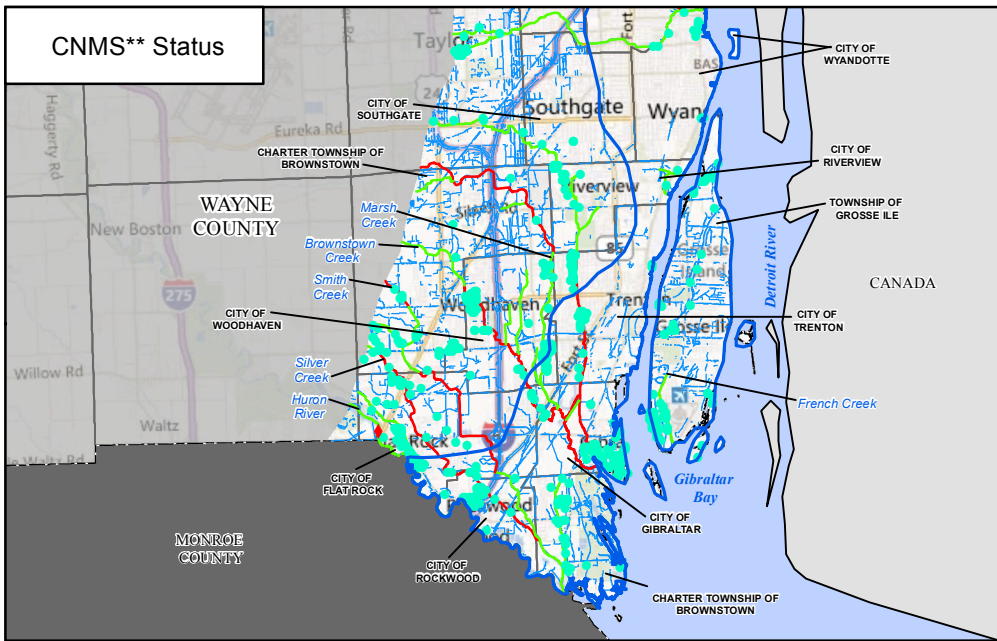
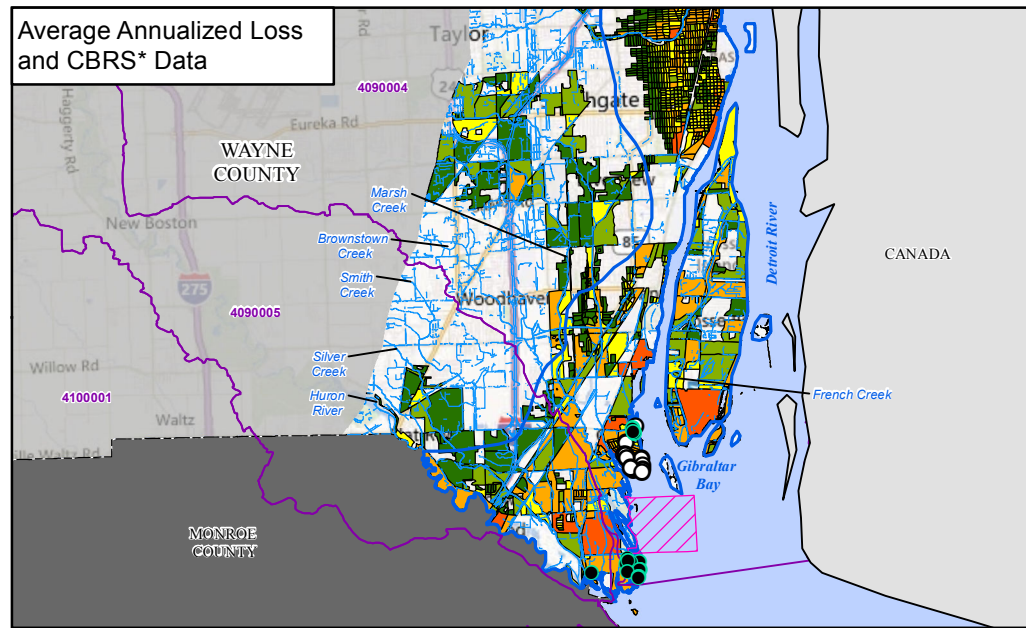
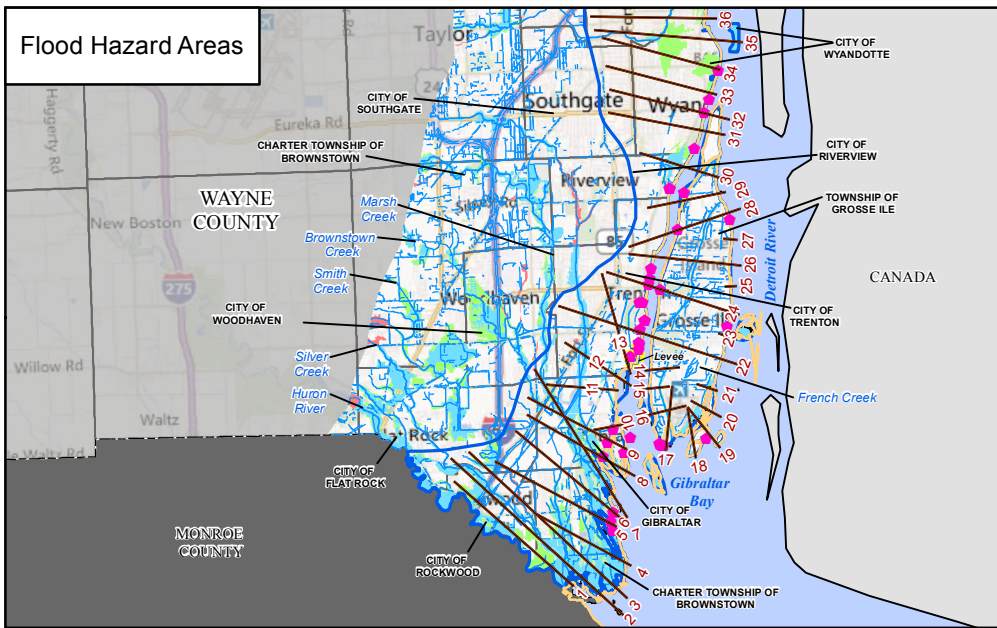
### Discovery Map

#### LAKE ERIE COASTAL STUDY

##### Monroe County, Michigan

Berlin, Charter Township of  
 Erie, Township of  
 Estral Beach, Village of  
 Frenchtown, Charter Township of  
 La Salle, Township of

Luna Pier, City of  
 Monroe, Charter Township of  
 Monroe, City of  
 South Rockwood, Village of



| NFIP Total Losses               |              |               |             |             |                     |
|---------------------------------|--------------|---------------|-------------|-------------|---------------------|
| Community                       | Total Losses | Closed Losses | Open Losses | CWOP Losses | Total Payments (\$) |
| Brownstown, Charter Township of | 85           | 50            | 0           | 35          | 200,360             |
| Dearborn, City of               | 24           | 10            | 0           | 14          | 46,119              |
| Detroit, City of                | 188          | 89            | 0           | 99          | 313,011             |
| Ecorse, City of                 | 3            | 1             | 0           | 2           | 6,363               |
| Flat Rock, City of              | 16           | 4             | 0           | 12          | 16,701              |
| Gibraltar, City of              | 553          | 432           | 0           | 121         | 1,812,971           |
| Grosse Ile, Township of         | 52           | 29            | 0           | 23          | 129,993             |
| Lincoln Park, City of           | 33           | 13            | 0           | 20          | 54,409              |
| Melvindale, City of             | N/A          | N/A           | N/A         | N/A         | N/A                 |
| River Rouge, City of            | 3            | 3             | 0           | 0           | 378                 |
| Riverview, City of              | 3            | 3             | 0           | 0           | 0                   |
| Rockwood, City of               | 28           | 20            | 0           | 8           | 103,242             |
| Southgate, City of              | N/A          | 0             | N/A         | N/A         | 0                   |
| Trenton, City of                | 33           | 17            | 0           | 16          | 67,820              |
| Woodhaven, City of              | 4            | 0             | 0           | 4           | 0                   |
| Wyandotte, City of              | 41           | 18            | 0           | 23          | 107,005             |

| Declared Disasters |            |        |      |               |   |
|--------------------|------------|--------|------|---------------|---|
| State              | Date       | County | Type | Incident Type | Title                                       |
| MI                 | 12/01/1972 | Wayne  | DR   | Flood         | Severe Storms & Flooding                    |
| MI                 | 04/12/1973 | Wayne  | DR   | Flood         | Severe Storms & Flooding                    |
| MI                 | 03/19/1976 | Wayne  | DR   | Severe Storms | Severe Storms, Tornadoes, Icing, & Flooding |
| MI                 | 09/08/1980 | Wayne  | DR   | Flood         | Severe Storms & Flooding                    |
| MI                 | 07/11/1997 | Wayne  | DR   | Severe Storms | Severe Storms, Tornadoes, & Flooding        |
| MI                 | 10/17/2000 | Wayne  | DR   | Severe Storms | Severe Storms & Flooding                    |
| MI                 | 06/30/2004 | Wayne  | DR   | Severe Storms | Severe Storms, Tornadoes, & Flooding        |

| Hazard Mitigation Action            |                    |                      |  |
|-------------------------------------|--------------------|----------------------|--|
| Name of Hazard Mitigation Plan      | Plan Approval Date | Plan Expiration Date | Hazard Mitigation Successes  |
| Wayne County Hazard Mitigation Plan | 04/27/2006         | 06/22/2012           | 2004 completion of restricted catch basin covers to allow water during heavy rainstorms to be detained on the street and slow down the intensity of stormwater entering the combined sewer system. |

**MAP SYMBOLOLOGY**

**LEGEND**

- Transect
- Shoreline
- HUC 8
- CBRS\*
- Stream
- Levee
- Discovery Study Area
- Surrounding County
- County Boundary
- Municipal Boundary

**WAYNE COUNTY AAL DATA**  
Total Average Annualized Loss per Census Block

- \$1 - \$2,500
- \$2,501 - \$100,000
- \$100,001 - \$250,000
- \$250,001 - \$750,000
- \$750,001 - \$2,000,000

**CNMS\*\* VALIDATION STATUS**

- UNVERIFIED
- UNKNOWN
- VALID

**SPECIAL FLOOD HAZARD AREAS**

- A ZONE
- AE ZONE
- 0.2 PCT ANNUAL CHANCE FLOOD ZONE

**HAZARD MITIGATION GRANT PROJECTS**

- Acquisition
- Elevation
- Elevation and Acquisition

\* CBRS - Coastal Barrier Resources System  
\*\* CNMS - Coordinated Needs Management Strategy

**COASTAL STUDY LOCATOR**



**NATIONAL FLOOD INSURANCE PROGRAM**  
Discovery Map

**LAKE ERIE COASTAL STUDY**  
Wayne County, Michigan (Map 1 of 2)

Brownstown, Charter Township of  
Dearborn, City of  
Detroit, City of  
Ecorse, City of  
Flat Rock, City of

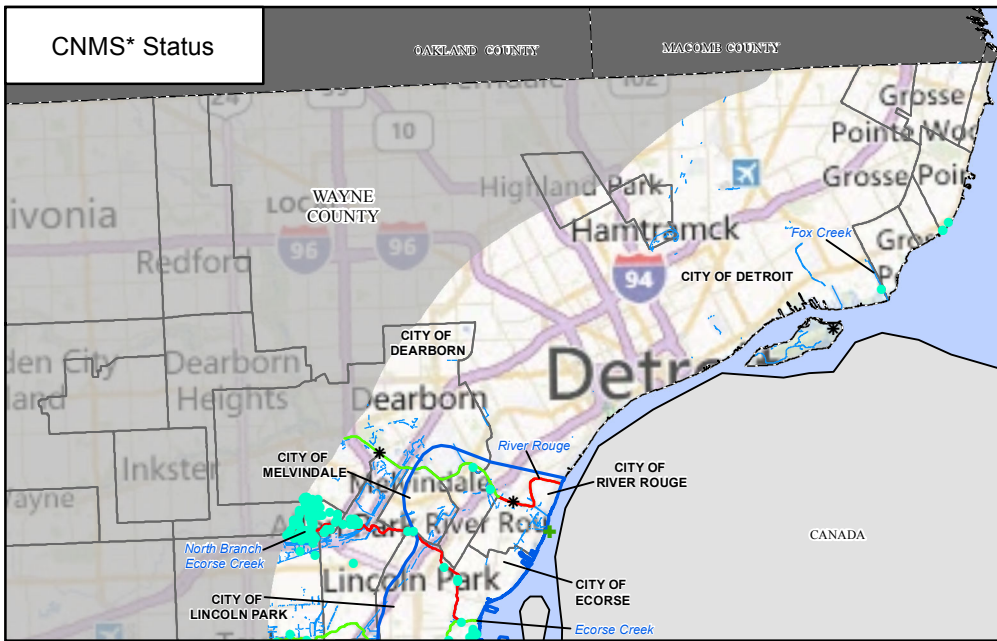
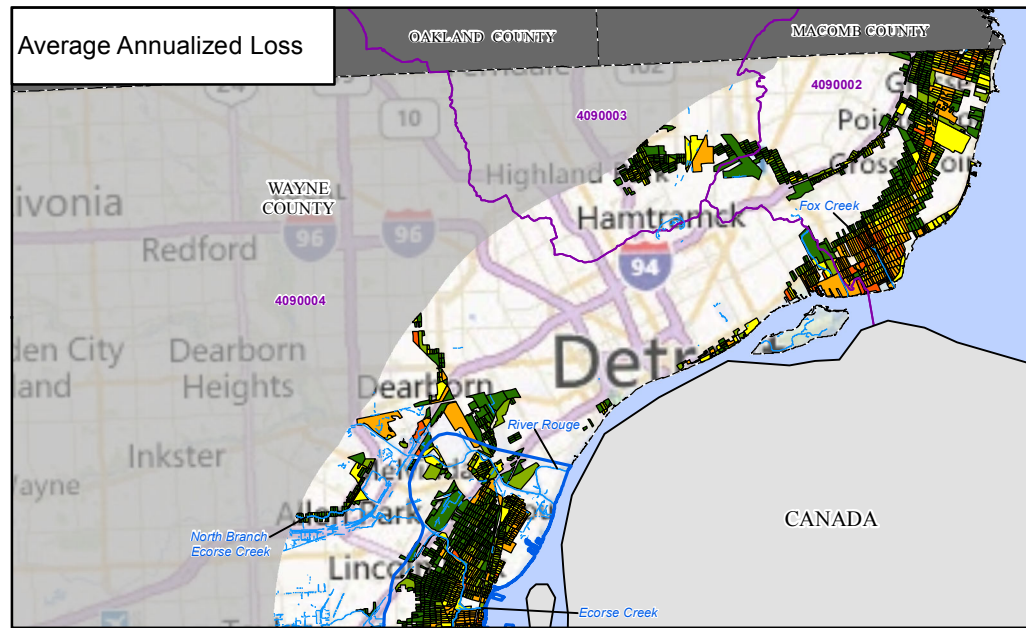
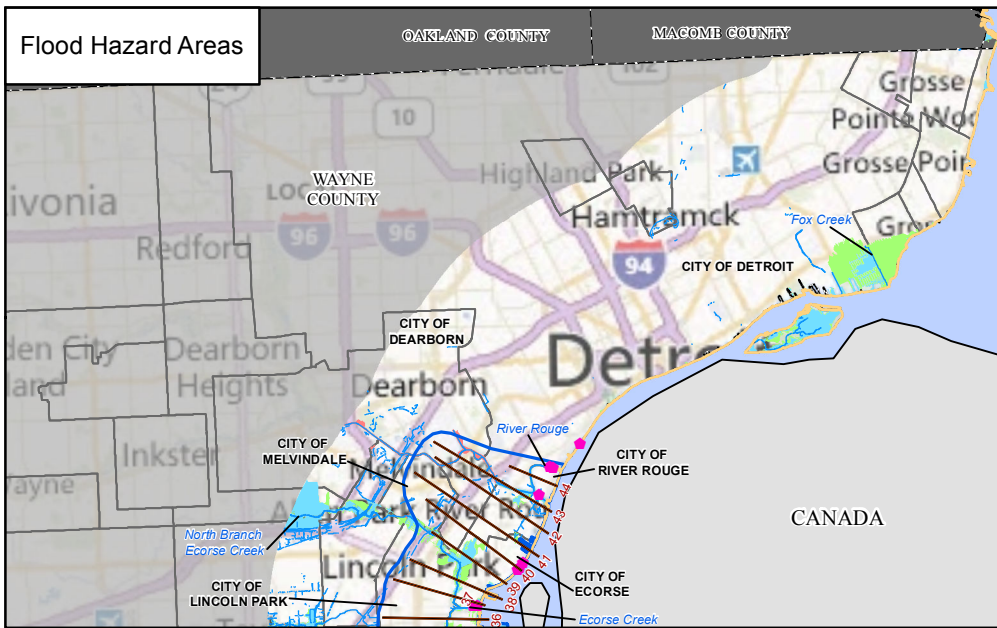
Gibraltar, City of  
Grosse Ile, Township of  
Lincoln Park, City of  
Melvindale, City of  
River Rouge, City of

Riverview, City of  
Rockwood, City of  
Southgate, City of  
Trenton, City of

Woodhaven, City of  
Wyandotte, City of

RAMPP  
FEMA

Final Discovery Map Date: March 29, 2013



#### NFIP Total Losses

| Community                       | Total Losses | Closed Losses | Open Losses | CWOP Losses | Total Payments (\$) |
|---------------------------------|--------------|---------------|-------------|-------------|---------------------|
| Brownstown, Charter Township of | 85           | 50            | 0           | 35          | 200,360             |
| Dearborn, City of               | 24           | 10            | 0           | 14          | 46,119              |
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| Riverview, City of              | 3            | 3             | 0           | 3           | 0                   |
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| State | Date       | County | Type | Incident Type | Title                                       |
|-------|------------|--------|------|---------------|---|
| MI    | 12/01/1972 | Wayne  | DR   | Flood         | Severe Storms & Flooding                    |
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| MI    | 10/17/2000 | Wayne  | DR   | Severe Storms | Severe Storms & Flooding                    |
| MI    | 06/30/2004 | Wayne  | DR   | Severe Storms | Severe Storms, Tornadoes, & Flooding        |

#### Hazard Mitigation

| Name of Hazard Mitigation Plan      | Plan Approval Date | Plan Expiration Date | Hazard Mitigation Successes  |
|-------------------------------------|--------------------|----------------------|--|
| Wayne County Hazard Mitigation Plan | 04/27/2006         | 06/22/2012           | 2004 completion of restricted catch basin covers to allow water during heavy rainstorms to be detained on the street and slow down the intensity of stormwater entering the combined sewer system. |

### MAP SYMBOLOLOGY

|   |  |  |   |
|---|--|--|---|
| <ul style="list-style-type: none"> <li>Transect</li> <li>Shoreline</li> <li>HUC 8</li> <li>Stream</li> <li>Discovery Study Area</li> <li>Surrounding County</li> <li>County Boundary</li> <li>Municipal Boundary</li> </ul> | <ul style="list-style-type: none"> <li>LOMC</li> <li>USGS Gage</li> <li>Port</li> <li>Coastal Structure</li> </ul> | <b>WAYNE COUNTY AAL DATA</b><br>Total Average Annualized Loss per Census Block <ul style="list-style-type: none"> <li>\$1 - \$2,500</li> <li>\$2,501 - \$100,000</li> <li>\$100,001 - \$250,000</li> <li>\$250,001 - \$750,000</li> <li>\$750,001 - \$2,000,000</li> </ul> | <b>CNMS* VALIDATION STATUS</b> <ul style="list-style-type: none"> <li>UNVERIFIED</li> <li>UNKNOWN</li> <li>VALID</li> </ul> |
|---|--|--|---|

|   |  |
|---|--|
| <b>SPECIAL FLOOD HAZARD AREAS</b> <ul style="list-style-type: none"> <li>A ZONE</li> <li>AE ZONE</li> <li>0.2 PCT ANNUAL CHANCE FLOOD ZONE</li> </ul> | * CNMS - Coordinated Needs Management Strategy |
|---|--|

### COASTAL STUDY LOCATOR



## NATIONAL FLOOD INSURANCE PROGRAM

### Discovery Map

#### LAKE ERIE COASTAL STUDY

Wayne County, Michigan (Map 2 of 2)

Brownstown, Charter Township of  
Dearborn, City of  
Detroit, City of  
Ecorse, City of  
Flat Rock, City of

Gibraltar, City of  
Grosse Ile, Township of  
Lincoln Park, City of  
Melvindale, City of  
River Rouge, City of

Riverview, City of  
Rockwood, City of  
Southgate, City of  
Trenton, City of

Woodhaven, City of  
Wyandotte, City of

RAMM  
Risk Assessment, Mapping, and Planning Services

FEMA  
FEDERAL EMERGENCY MANAGEMENT AGENCY

Final Discovery Map Date:  
March 29, 2013

# **Attachment D: Discovery Meeting**

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Attachment D-1: Meeting Agenda

Attachment D-2: Presentation

Attachment D-3: Sign-in Sheets

Attachment D-4: Meeting Summary

Attachment D-5: Meeting Evaluation Forms

Attachment D-6: Mitigation Action Form

Attachment D-7: Discovery Map Comments from Meeting

# Attachment D-1

## Meeting Agenda

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|                       |  |
|-----------------------|--|
| <b>Project Name:</b>  | FEMA Region V Discovery  |
| <b>Meeting:</b>       | Monroe and Wayne County, MI<br>Great Lakes Coastal Discovery Meeting |
| <b>Date and Time:</b> | Thursday August 9, 2012 2:30 pm to 4:30 pm                           |
| <b>Place:</b>         | Woodhaven Community Center<br>21869 West Road, Woodhaven, MI 48183   |
| <b>Facilitator:</b>   | Mike Hanke (FEMA) and Amelia Vincent (RAMPP)                         |

## Discovery Meeting Agenda

### 1. Why are we here? (15 minutes)

- Great Lakes Coastal Flood Study Overview and Schedule
- Discovery Process and Outcomes

### 2. Coastal mapping and flood risk topics to be aware of (25 minutes)

### 3. How does this apply to my community? (10 minutes)

### 4. Interactive Session A (25 minutes)

- View and Discuss Local Coastal Areas of Concern Using the Discovery Map

### 5. Hazard mitigation opportunities and grant funding (10 minutes)

### 6. Interactive Session B (25 minutes)

- Discuss Mitigation Action Opportunities and Introduce the Mitigation Action Form

### 7. Wrap Up (10 minutes)

- Review of action items and next steps

### *Optional Interactive Stations (30 minutes - 1hr following meeting)*

- *Draft Transect Map Station: Talk to technical staff about draft transects and view draft transects in GIS*
- *Mitigation Resources, Strategies, and Actions Station: Talk with FEMA staff about areas of concern and potential mitigation actions to help reduce risk. Fill out Mitigation Action Form.*

# Attachment D-2 Presentation

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# Lake Erie Discovery

## Monroe and Wayne, MI

August 9, 2012  
2:30 pm to 4:30 pm

Woodhaven Community Center  
Woodhaven, MI



Metropark Harbor of Refuge



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## Introductions

### Who's here?

- **Risk MAP Project Team**
  - FEMA
  - RAMPP
- **Federal**
  - USACE
- **State**
  - MDEQ
  - State Police
- **Local Stakeholders**
  - CEOs
  - Floodplain Administrators
  - Planners
  - Engineers
  - Emergency Managers
  - Community Leaders
  - Regional Planning Agencies
  - Coastal Organizations



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## Discovery Meeting Agenda



- **Why are we here?**
  - Risk MAP Program, Great Lakes Study, and Discovery
- **Coastal mapping and flood risk topics**
- **How does this apply to my community?**
- **Interactive Session A**
  - View and Discuss Local Coastal Areas of Concern Using the Discovery
- **Hazard mitigation opportunities and grant funding**
- **Interactive Session B**
  - Discuss Mitigation Action Opportunities and Introduce Mitigation Action Form
- **Wrap Up**
- **Optional Interactive Stations**



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## Risk Mapping, Assessment and Planning

### Risk MAP



Through collaboration with State, Local, and Tribal entities, Risk MAP aims to deliver **quality data** that increases **public awareness** and leads to **action that reduces risk** to life and property



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## Great Lakes Coastal Flood Study



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## Great Lakes Coastal Flood Study Overview



- **Latest models, data, and technology**
  - Includes basin-wide water surface grids and storm sampling built from continuous record of 50 years of meteorological, water level, and ice field data (1960 - 2009)
  - Includes changes to runup computational approach
  - Updated version of Appendix D.3 (FEMA Guidelines and Standards)
  - Latest imagery, LiDAR, and Bathymetry
  - Deliver updated flood maps and flood risk datasets
- **Equip Federal Agencies, eight States and hundreds of coastal communities with data and planning tools to facilitate flood risk actions to enhance resiliency along the Great Lakes**



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# Lake Erie Discovery



## 13 counties

- Ohio
  - Ashtabula
  - Cuyahoga
  - Erie
  - Lake
  - Lorain
  - Lucas
  - Ottawa
  - Sandusky
- Michigan
  - Monroe
  - Wayne
- New York
  - Chautauqua
  - Erie
- Pennsylvania
  - Erie



## 132 coastal communities

**RiskMAP**  
Increasing Resilience Together



# Discovery Meeting Objectives

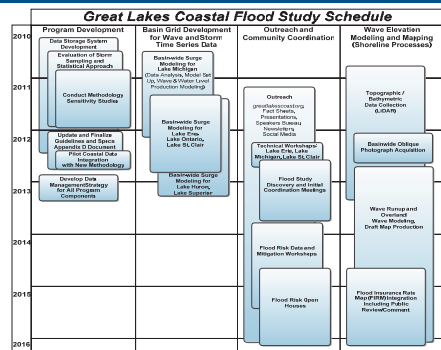


- Continue and expand upon stakeholder engagement
- Discuss data inputs from Federal, state and local
- Identify local coastal flood hazard needs and areas of concern
- Identify products and datasets that best advance coastal mitigation action
- NFIP regulatory updates
- Discovery schedule and deliverables

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# Stakeholder Engagement



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# Data Inputs

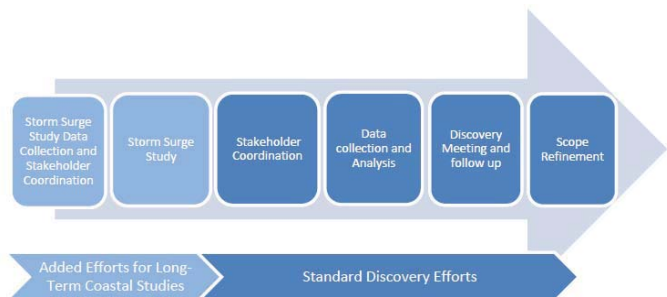


- Updates to analysis and methodology guidance
- Proposed transect locations
- Topographic and Bathymetry data collected
- Bare Earth Imagery collected
- Identify reaches requiring special attention and data
- Document local data sources that will help improve study

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Increasing Resilience Together



# Discovery Schedule Overview



**RiskMAP**  
Increasing Resilience Together



# Lake Erie Discovery



## Schedule of Activities

- Identify Draft Transect Locations – Completed
- Research available data – Completed
- Information Exchange with Community Stakeholders – July 2012
- Prepare draft Discovery Maps and Reports – July 2012
- Establish inventory of coastal structures based on oblique imagery – August/September 2012
- Facilitate Discovery Meetings – July/August 2012
- Final Discovery Report and Maps – November 2012
- Create library of digital data – November 2012

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## Great Lakes Coastal Flood Study Discovery Products



### Final Discovery Report

- Single, comprehensive report for all of Lake Erie, with appendices for each Discovery meeting
- Includes pre-discovery data, meeting agenda, sign-in sheets, discussion topics, decisions made, etc.

### Final Discovery Maps

- Including feedback from participants
- Visual representation of meeting outcomes
- Delivered in digital format



#### Discovery Report

Watershed Name, Watershed Number  
County Name  
County Number  
Basin  
Report Number-00  
00000-0000  
If comments remain on any of the data, please email the project director at [dl@greatlakescoast.org](mailto:dl@greatlakescoast.org).  
Include data sets that have relevant comments.



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## Discovery Outcomes



### Explain the Project

- Regulatory and non-regulatory products/datasets
- Analysis, concepts, and timelines

### Encourage Community Participation

- Transect Locations
- Areas of concern and need
- Data to improve upon products and datasets

### Introduce Mitigation Action

- Mitigation Action Form
- Mitigation strategies for coastal flood and erosion

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## Data Collected



### Topographic and Bathymetric Data\*

- Base data – boundaries, streams, census blocks, etc.
- Average Annualized Loss data
- Coastal Barrier Resources System
- Shoreline classification

\* New, high-quality USACE bathy/topo will replace existing data

- Federal and State disaster information
- Repetitive loss data
- Letters of Map Change cluster locations
- Dams and Levee locations
- Stream, wave, and water level gage locations

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## Data Gaps



- Building footprints
- Critically eroded beach areas
- Beach nourishment and dune replacement projects
- Critical Facilities (in GIS format)
- High water marks
- Areas of recent or planned development and high growth
- Recent land changes due to development or erosion
- Known flooding issues not represented on effective FIRMs or CNMS
- Hazard Mitigation Plans
  - Monroe County – N/A
  - Wayne County – Expired June 22, 2012

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## Coastal Mapping and Flood Risk Topics

- Draft Transects
- Coastal Guidance Updates
- VE Zone Mapping and LiMWA
- Coastal Flood Risk Products

**RiskMAP**  
Increasing Resilience Together

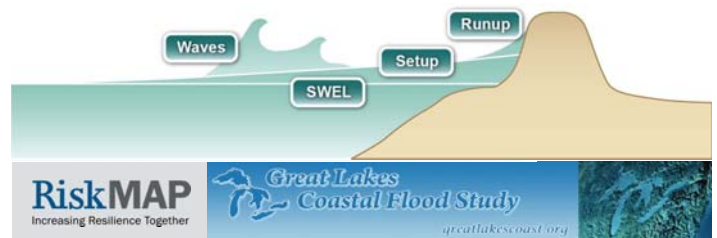


## Basic Elements of a Coastal Hazard Analysis



Base Flood Elevation on FIRM includes 4 components:

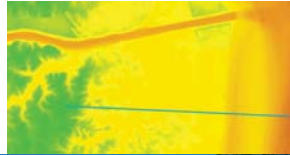
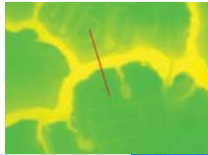
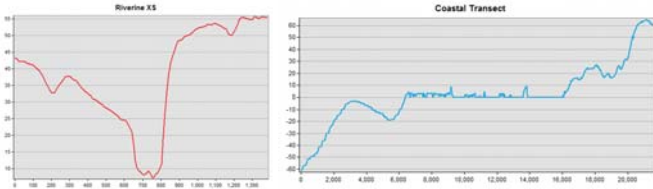
1. Storm surge stillwater elevation (SWEL) Determined from storm surge model
2. Amount of wave setup
3. Wave height above storm surge (stillwater) elevation
4. Wave runup above storm surge elevation (where present)



**RiskMAP**  
Increasing Resilience Together



## Riverine XS vs Coastal Transect



**RiskMAP**  
Increasing Resilience Together

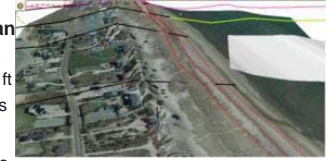
**Great Lakes Coastal Flood Study**  
greatlakescoast.org



## Transect Placement



- Transects are placed to define representative profiles for a shoreline reach
- Transect spacing depends on upland development
  - Developed areas – As dense as 1,000 ft
  - Rural areas – Spacing can be 1-2 miles
- Transects are:
  - Profiles along which flooding analysis is performed
  - Used to transform offshore conditions to shoreline
  - Use to define coastal flood risks inland of shoreline



**RiskMAP**  
Increasing Resilience Together

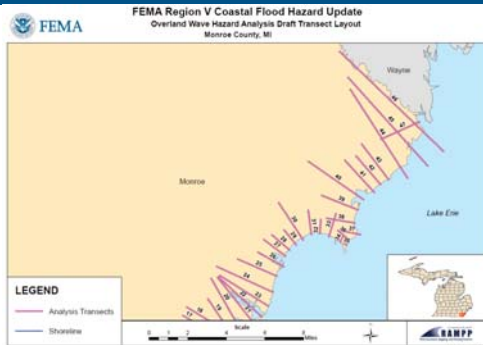
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greatlakescoast.org



## Draft Transect Layout - Monroe



- 34 miles of shoreline
- 47 Proposed Transects



**RiskMAP**  
Increasing Resilience Together

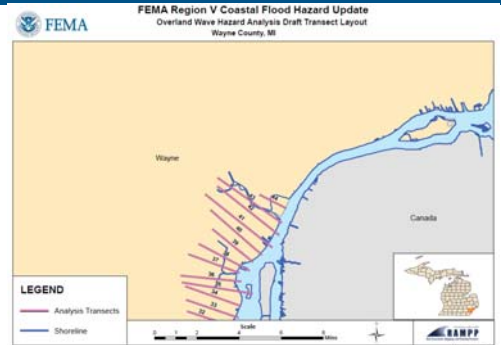
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## Draft Transect Layout - Wayne



- 49 miles of shoreline
- 43 miles along Detroit River
- 4 miles along Lake Erie
- 2 miles along Huron River
- 44 Proposed Transects



**RiskMAP**  
Increasing Resilience Together

**Great Lakes Coastal Flood Study**  
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## Coastal Flood Hazard Zones



- Hazard Zones**
  - Zone VE** – Areas expected to be affected by high velocity wave impact in 100-year event (wave heights or runup depth at or greater than 3 feet)
    - Base Flood Elevation established
  - Zone AE** – Areas expected to be flooded by inundation in 100-year event
    - Base Flood Elevation established (wave heights and runup depth less than 3 feet)
  - Zone X** – Areas not expected to be flooded in 100-year event
    - Shaded X** – Areas expected to be flooded in 500-year event
      - Base Flood Elevations not established
  - LIMWA** – Areas subject to wave heights of at least 1.5 feet
    - Non-Regulatory
- Gutters**
  - Internal zone breaks where Base Flood Elevation changes
  - VE/AE Gutter - Location where risk of damage due to wave action diminishes

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## VE Zones in the Great Lakes



- From the revised Appendix D.3:**
  - “VE zones may also be mapped where the engineering analysis indicates their presence”
  - “The typical study finding is a narrow VE zone, making its usefulness uncertain on maps at usual scales”
  - “Relatively small numbers of existing coastal buildings are likely to be affected by possible VE zone designations along some Great Lakes”
  - “Only with prior approval from the FEMA study representative should the VE zones be mapped”

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## How is LiMWA Defined?



- LiMWA is the line mapped to delineate the inland extent of wave heights of at least 1.5 feet
  - Wave heights as small as 1.5 feet can cause significant damage to structures
- LiMWA alerts people that are not in the high wave hazard zone (Zone VE) that they may still be affected by wave action in the Zone
- CRS benefit for communities requiring Zone VE construction standards in areas defined by LiMWA or areas subject to waves greater than 1.5 ft

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## Wave Action - Structural Risk



- US Army Corps of Engineers – 1973
  - Breaking wave height of 3 feet
  - “area subject to high velocity waters including but not limited to hurricane wave wash”
- FEMA – 2000
  - Coastal Construction Manual
  - Additional post-storm damage assessments identified 1.5 wave also can knock a structure off a foundation



[http://www.fema.gov/pdf/rebuild/mat/coastal\\_a\\_zones.pdf](http://www.fema.gov/pdf/rebuild/mat/coastal_a_zones.pdf)

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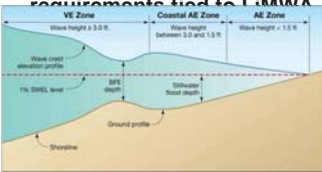


## Limit of Moderate Wave Action (LiMWA)



FEMA Procedure Memorandum No. 50, 2008

- Not a regulatory requirement
- No Federal Insurance requirements tied to LiMWA



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## Coastal Flood Risk Products

- Coastal Depth Grids and Hazus
- Changes Since Last FIRM
- Coastal Non-Regulatory Products

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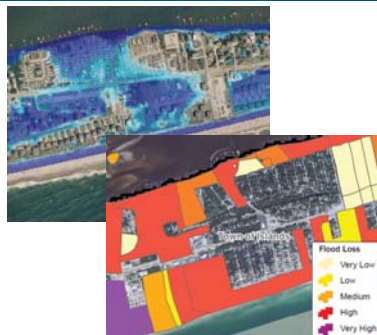


## Standard Flood Risk Products



- Coastal Depth Grids
- Flood Risk Assessment (Hazus)

HAZUS  
EARTHQUAKE • WIND • FLOOD



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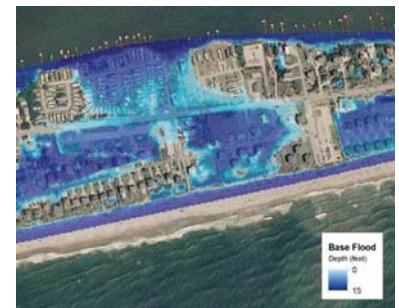
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## Coastal Depth Grid



- Should reflect total depth (i.e. stillwater and waves) – typically only produced for the 1% annual chance flood
- Created using the regulatory mapping and associated zone breaks as input
- Depths reflect difference between wave crest elevation and ground for the 1-percent-annual-chance flood



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# Coastal Flood Risk Assessments



- Similar to Flood Risk Assessments for riverine, but using the coastal depth grids as input for the refined analysis
- Hazus analysis and data can support adoption of higher regulatory standards for structures in high loss areas
- Provides justification to fund mitigation actions



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# Changes Since Last FIR



| Data Fields Include                     | Example Data Values                             |
|---|---|
| Old Study Date                          | e.g. 1985                                       |
| Old Model Type(s)                       | e.g. HEC-1 / HEC-2                              |
| Old Zone Type                           | e.g. Zone A                                     |
| Old Topography                          | e.g. USGS 10-ft                                 |
| New Study Info/Methods                  | Dates, Models, etc.                             |
| New Study Zone                          | e.g. Zone AE                                    |
| New Topography                          | e.g. LiDAR 2-ft                                 |
| New Study Engineering Factors / Changes | e.g. new structures, gages, topo, landuse, etc. |
| Estimated Structures                    | e.g. 9  |
| Estimated Population                    | e.g. 27   |

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# Coastal Non-Regulatory Products



- If and when are products produced?**
  - Operating Guidance for the Selection of Enhanced Datasets
  - Availability of coastal analysis modeling information
  - Will the information be beneficial to the communities?
    - Increase risk awareness?
    - Facilitate mitigation actions?
- Products may be produced for the entire coastline or focused areas determined to be the most valuable**
  - Discovery process should facilitate these selections
- Additions to Flood Risk Map, Flood Risk Database, & Flood Risk Report**
- Datasets will not be recreated from existing data available outside of FEMA. Direction to such information will be provided in the Flood Risk Report.**

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# Coastal Non-Regulatory Products in Development



Depth Grids, Hazus (incl. revised analysis for 1% annual chance loss)



Lake St. Clair, at Anchor Bay  
[Reference](#)

Storm Response Erosion data



Lake Michigan, Indiana shoreline Red Lantern Restaurant

Shoreline Feature Dataset



Upper Peninsula Shoreline  
[Reference](#)

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# Shoreline Features Database



| Shoreline Material | Primary Land Use             | Primary Coast Type | Primary Vegetation            |
|--------------------|------------------------------|--------------------|-------------------------------|
| Sand               | High Density Residential     | High Dune, 10'+    | None                          |
| Cohesive           | Moderate Density Residential | Dune, 2' - 10'     | High Density Shrubs/Trees     |
| Cobble             | Low Density Residential      | High Bluff, 10'+   | Moderate Density Shrubs/Trees |
| Diamicton*         | Commercial/Industrial        | Bluff, 2' - 10'    | Low Density Shrubs/Trees      |
| Shingle            | Park Land                    | Coastal Wetland    | Manicured Lawn                |
| Bedrock            | Farm Land                    | Flat Coast         | Native Vegetation             |
| Artificial         | Forested                     |                    |                               |

- Contains primary and secondary Land Use tables – same for coast type and vegetation
- Current project collects data at one-mile spacing, for scoping and cost
- Current project does not include field-based reconnaissance or sediment/subsurface soils collection

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# Coastal Flood Risk Map

- Similar to riverine map
- Highlights area where datasets were produced
- Use of callout boxes
- Should drive the conversation towards mitigation



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## Areas Affected by Increased Coastal Inundation



- Highlights areas that would be inundated if water levels increased by 1, 2, or 3 ft (or other user-defined increase)
- Typically created for the 1% annual chance flood, but could be done for other flood events
- Possible causes for higher flood levels include:
  - More severe storm events
  - Climate change impacts such as sea level rise



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## Wave Hazard Severity Areas



- Highlights areas where wave hazard are high (V Zone and PFD), moderate (between V Zone and LIMWA where wave heights are between 1.5 – 3ft), and minimal (wave heights less than 1.5ft)
- Dataset can also optionally store number of buildings within each delineated polygon (if local building footprint data is available)



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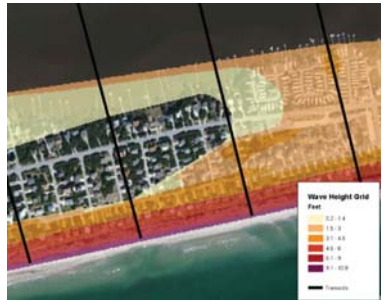
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## Coastal Wave Height Grid



- Dataset showing wave height information to greater detail than the Wave Hazard Severity Areas dataset by delivering within a raster dataset
- Represents the full wave height, not just the portion of the wave crest that lies above the stillwater elevation
- Wave damage to structures can be mitigated if they are properly elevated above predicted water levels and wave heights on engineered foundations



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## Erosion Risk Determination



- Polygons depicting the spatial extent of the regulatory Primary Frontal Dune (PFD), based on topography and/or shoreline survey data and augmented with aerial photos as needed
- Polygons can be further subdivided to show the spatial extent of the eroded ground as estimated from the erosion analysis



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## Coastal Updates to Flood Risk Report



- Explanations of coastal non-regulatory datasets and their use in risk communication and mitigation planning
- References to other publications and resources that provide information on coastal risks
- Captures and reports increases and decreases in Coastal High Hazard Areas (VE & V Zones) within the Changes Since Last FIRM tables in the FRR

| Area of Study              | Total Area (mi <sup>2</sup> ) | Increase (mi <sup>2</sup> ) | Decrease (mi <sup>2</sup> ) | Net Change (mi <sup>2</sup> ) |
|----------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|
| Within SFHA                | 23.8                          | 1.6                         | 0.4                         | 1.2                           |
| Within Floodway            | 1.4                           | 0.2                         | 0.0                         | 0.2                           |
| Within CHHA (VE or V Zone) | 7.8                           | 0.9                         | 0.5                         | 0.4                           |

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## Coastal Updates to Flood Risk Report



- Captures and reports the additional areas that would be inundated, based on 1, 2, or 3 feet of increased inundation

| Flood Event Frequency | Area of Additional Inundation (mi <sup>2</sup> ) |                 |       |                 |       |
|-----------------------|--|-----------------|-------|-----------------|-------|
|                       | 1-ft Increase                                    | 2-ft Increase   |       | 3-ft Increase   |       |
|                       |  | Newly Inundated | Total | Newly Inundated | Total |
| 1%-annual-chance      | 0.6  | 0.8             | 1.4   | 1.2             | 2.6   |



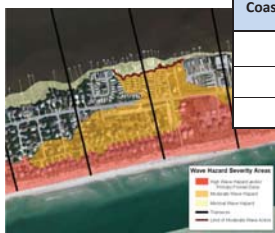
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## Coastal Updates to Flood Risk Report

- Captures and reports the total area and number of structures (if available) within each of the 3 different levels of wave hazard (High, Moderate, and Minimal)



| Coastal Wave Hazard Severity | Total Area (mi <sup>2</sup> ) | # of Structures |
|------------------------------|-------------------------------|-----------------|
| High                         | 0.4                           | 15              |
| Moderate                     | 2.6                           | 187             |
| Minimal                      | 3.3                           | 296             |

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## Non-Regulatory Product Usage and Action

- Risk MAP Products and Datasets help communities make good decisions to reduce flood risk:
  - Hazard Mitigation Planning
  - Floodplain Management and Community Rating System
  - Community Comprehensive or General Planning
  - Community Investment - Capital Improvement Planning
  - Public Outreach
  - Hazard Mitigation Assistance Grant Application Prioritization and Support
  - Other Non-FEMA Grants to Reduce Flood Risk
  - Response and Recovery Planning
- Mitigation Action Form

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## How does this apply to my community?

- NFIP Compliance
- Local impacts of coastal study

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## National Flood Insurance Program

- Allows property owners to purchase flood insurance at reduced rates
- State and local governments agree to adopt and enforce floodplain management ordinances
- Over 20,300 communities participate in the NFIP



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## V Zones for Michigan

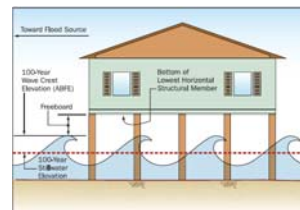
- Monroe and Wayne Counties currently do not have V/E Zones or Coastal A/AE Zones
- There are couple areas of V Zones in Michigan
- If coastal flood zones are added, all affected communities must update regulations to include coastal requirements

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## Coastal Zones and NFIP Compliance

- Must meet minimum NFIP and community coastal requirements
- NFIP design and construction requirements are more stringent in V zones due to wave, debris, and erosion hazards in V zones
- Recommendations for exceeding the minimum NFIP requirements (Coastal A Zones)
  - Can obtain CRS credits for Coastal A Zone Requirements
- Resources Available



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## Community Rating System (CRS)



- Flood insurance premium rates discounted to reward community actions that reduce flood losses, facilitate accurate insurance ratings, and promote the awareness of flood insurance
- Class rating system from 1 to 10
- Each Class improvement (500 point increments) results in additional 5% discount, up to 45% in SFHAs for Class 1 communities
- Uniform minimum credits give you points for activities on the state level (state laws) and make achieving a Class 9 relatively easy
- 18 creditable activities organized under four categories:

Public Information      Regulations      Mapping and

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 Flood Damage Reduction      Flood Preparation

▪ <http://training.fema.gov/EMIWeb/CRS/> [greatlakescoast.org](http://greatlakescoast.org)

## CRS Communities



- **Monroe County**
  - City of Luna Pier - CRS Class 8
- **Wayne County**
  - City of Gibraltar – CRS Class 8

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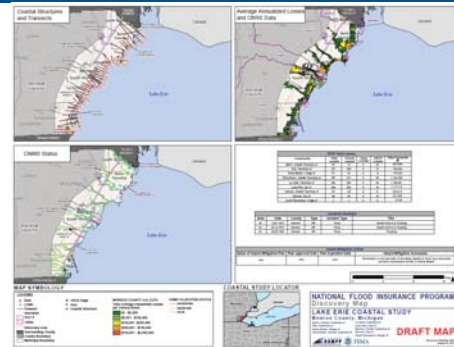
## Interactive Session A

- View and Discuss Local Coastal Areas of Concern Using the Discovery Map

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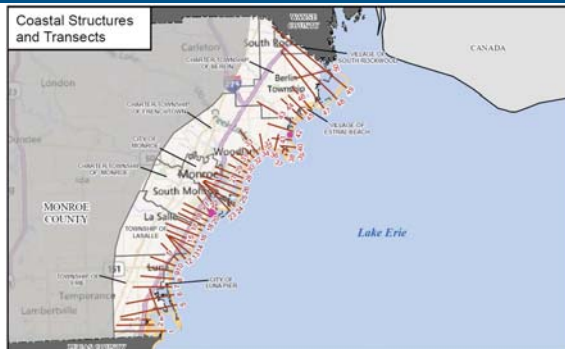
## Monroe County, MI Discovery Map



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## Monroe County, MI Discovery Map – Coastal Structures and Transects



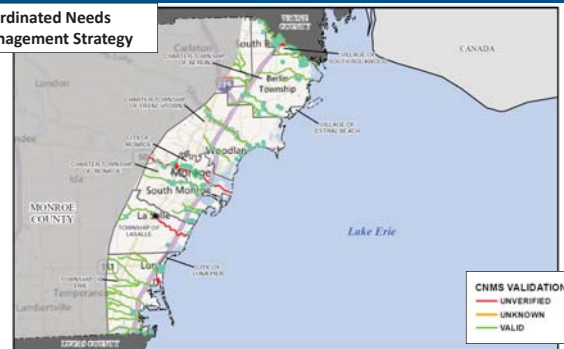
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## Monroe County, MI Discovery Map – CNMS Status



Coordinated Needs Management Strategy

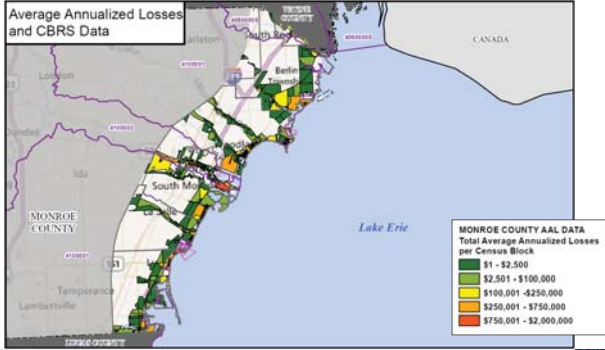


**CNMS VALIDATION STATUS**  
 UNVERIFIED  
 UNKNOWN  
 VALID

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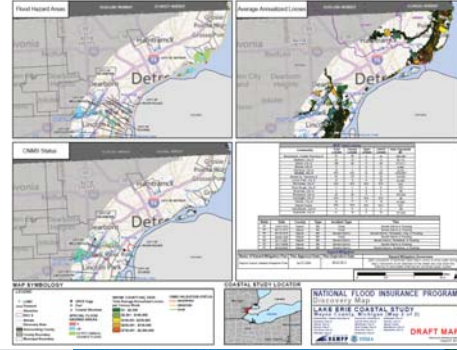
## Monroe County, MI Discovery Map – AAL and CBRS



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## Wayne County, MI Discovery Map



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## Wayne County, MI Discovery Map – Flood Hazard Areas



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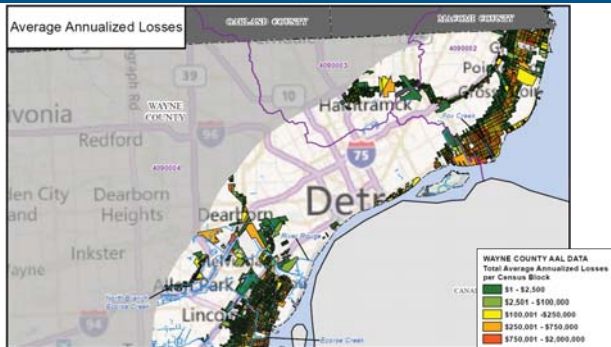
## Wayne County, MI Discovery Map – CNMS Status



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## Wayne County, MI Discovery Map – AAL and CBRS



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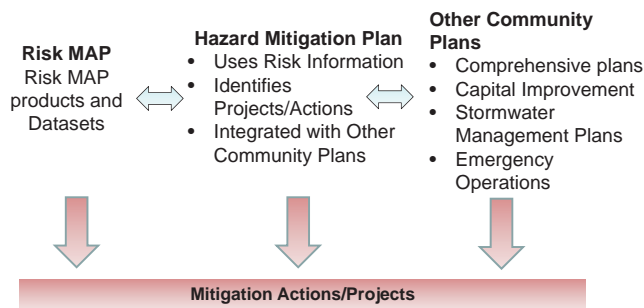
## Hazard Mitigation

- Opportunities
- Grant Funding

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# Local Hazard Mitigation Plans



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# Mitigation Actions



- Address specific **existing** assets (e.g., elevate critical facility, enlarge a culvert)
- Address **future** risks (e.g., update building codes)
- Based on local capabilities
  - Build on current strengths, ongoing efforts (add-on to stormwater management regulations)
  - Coordinate with Federal programs (e.g., NFIP, CRS)



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# Example Mitigation Actions



|   |   |   |   |
|---|---|---|---|
|   |   |   |   |
| <b>STRUCTURAL PROJECTS</b><br>Acquisition<br>Elevation<br>Retrofits<br>Drainage | <b>PLANNING MECHANISMS</b><br>Zoning<br>Building Codes<br>Ordinances<br>Open Space Plan | <b>EDUCATION &amp; OUTREACH</b><br>Public Awareness<br>Outreach<br>Educational programs | <b>NATURAL RESOURCE PROTECTION</b><br>Stream and wetland restoration<br>Erosion control |

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# Mitigation Grant Programs and Funding Sources



- **Hazard Mitigation Assistance (HMA)**
  - Hazard Mitigation Grant Program (HMGP)
- **Grants available in the absence of a disaster / pre-disaster**
  - Pre-Disaster Mitigation Grant Program (PDM)
  - Flood Mitigation Assistance (FMA)
  - Repetitive Flood Claims (RFC)
  - Severe Repetitive Loss (SRL)
- **Grants are made from FEMA to a State (or Tribe/Territory)**
  - Communities contact State Hazard Mitigation Officer (SHMO) if interested in applying for HMA
- **Other**
  - Community Development Block Grant

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# Monroe County Mitigation Best Practices



- **Village of Estral Beach – Flood-Prone Home Elevations**
  - Project involves elevating 39 flood-prone homes a minimum of one-foot above the 100-year flood elevation
  - Homes that are subject to wave run up from Lake Erie have to be elevated in accordance with recommendations of MDEQ
  - 11 homes elevated as of May 2011



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# Wayne County Mitigation Best Practices



- **City of Wyandotte Restricted Flow Catch Basin Covers**
  - Funded by HMGP under Federal Disaster 1346-DR-MI
  - Minimize repetitive impacts of flooding on residents of Wyandotte
  - Involved installation of approximately 2,300 restricted catch basin covers throughout the city
  - Restricted covers allow water during heavy rainstorms to be detained on the street and slow down the intensity of the stormwater entering the combined sewer system



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# Hazard Mitigation Resources, Strategies & Actions



- The right action (or mix of actions) will be based on recent community experiences and level of complexity in existing infrastructure
  - Public Works
  - Building Standards
  - Community Planning and HM Plan Update / Integration processes
  - Communication Processes, GIS, etc.
- Get the right people to the table: Integrated vs. Discipline-specific
- Document ideas and actions through the FEMA Mitigation Action Form

|   |  |   |   |   |
|---|--|---|---|---|
| <b>Land Use Ordinances</b><br>Zoning, Setbacks, Floodplain Management, etc. | <b>Local Building Codes</b><br>IBC, IRC, Local Regulations, etc. | <b>Mitigation Projects</b><br>Acquisition, Elevation, Floodproofing, etc. | <b>Community Identified Mitigation Programs</b> | <b>Management Best Practices</b><br>Integration of natural hazards into other planning mechanisms |
|---|--|---|---|---|

# Interactive Session B

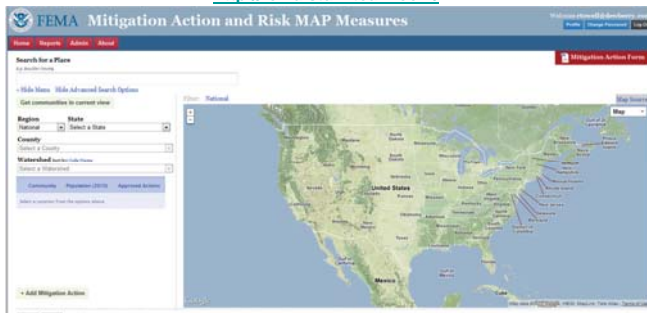


- Discuss Mitigation Action Opportunities and Introduce the Mitigation Action Form

# Capturing and Tracking Mitigation Actions



<http://fema.starr-team.com/>



# Capturing and Tracking Mitigation Actions



### Mitigation Action Form

**Mitigation Action Information**

**4. Jurisdiction Name(s)** Required  
Please provide the full name of the jurisdiction where the Mitigation Action applies, e.g., City of Boulder, CO

**5. Mitigation Activity Name** Required  
The Mitigation Activity Name should be concise yet descriptive. For example, "Bank acquisition project along south side of Main St."

**6. Mitigation Action Status** Required  
Please check the appropriate box. The Mitigation Action Status defines the current stage of the action. For example, a "Scoping" status suggests that the action has been scoped or funded with intentions to move to "Program" and advance toward "Completion".


Identified    Scoped    Progress    Completed

**7. Mitigation Action Source** Required  
Please check the appropriate box. The Mitigation Action Source defines the source(s) that identified or initiated the action or changing its status.

|  |  |
|--|--|
| <input type="checkbox"/> Risk MAP Review             | <input type="checkbox"/> FEMA Outreach         |
| <input type="checkbox"/> Comprehensive Land Use Plan | <input type="checkbox"/> Local Mitigation Plan |
| <input type="checkbox"/> Capital Improvement Plan    | <input type="checkbox"/> Other Silver Jackets  |
| <input type="checkbox"/> Other                       |  |

If this Mitigation Action was identified during the RiskMAP Process, please indicate the name of the RiskMAP Project.

# Questions?



# Results from Interactive Sessions



- Review and Clarify Communication, Planning, and Compliance Needs
  - Local coastal areas of concern
  - Existing local coastal data
  - Mitigation Action opportunities
  - Mitigation Action form

## Next Steps



- **Communities will:**
  - Provide all data and Mitigation Action Forms to RAMPP by August 31, 2012
- **RAMPP/FEMA will:**
  - Assess data and information provided
  - Email summary of today's Discovery Meeting to you within one month
  - Prepare final Discovery Maps and Discovery Report
  - Follow-up regarding Risk MAP Project

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## Optional Interactive Stations



- **Draft Transect Map Station**
  - View draft transect locations and oblique imagery in data viewer
  - Discuss draft transect locations with technical staff
- **Mitigation Resources, Strategies, and Actions Station**
  - Talk with FEMA representative about areas of concern and potential mitigation actions to help reduce risk
  - Fill out Mitigation Action Form

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## Contacts



### FEMA

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**Ken Hinterlong**  
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### RAMPP

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### State

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[thomasl@michigan.gov](mailto:thomasl@michigan.gov)

**Matt Schnepf**  
State Hazard Mitigation Officer  
[SchnepfM1@michigan.gov](mailto:SchnepfM1@michigan.gov)

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# Attachment D-3

## Sign-In Sheets

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**Monroe and Wayne County, MI – Lake Erie Discovery Meeting Sign-In Sheet**
**August 9, 2012**

Please sign in and confirm your contact information, making changes below as needed.

| Organization             | Name           | Address                             | St, City, ZIP      | Phone        | Email                                 | Initials |
|--------------------------|----------------|-------------------------------------|--------------------|--------------|---------------------------------------|----------|
| Monroe County            | Rob Peven      | 125 E 2 <sup>nd</sup>               | Monroe 48161       | 734 240 7383 | rpeven@monroemil.org                  | RP       |
| MUNROE COUNTY            | JEFF BOUDRIE   | 125 E. 2ND                          | MONROE, MI 48162   | 734 240 7372 | JEFF_BOUDRIE@MONROEMIL.ORG            | JB       |
| CITY OF TRENTON          | PAUL HALEY     | 2800 THIRD                          | TRENTON MI 48183   | 734.777.6670 | phaley@trenton-mi.com                 | PH       |
| VILLAGE OF ESTERAL BEACH | BERNIE CIUPAK  | 526 V. NEWNS WYANDOTTE MI 48192     | WYANDOTTE MI 48192 | 734 285 2986 | BFC.BERNIE@AOL.COM                    | BC       |
| VILLAGE OF S. ROCKWOOD   | TIM WALSH      | 13880 WATERWAY                      | GIBRALTAR MI 48173 | 313-590-6673 | twalsh2@comcast.net                   | TW       |
| RAMPP                    | Amelia Vincent | 12420 Milestone                     | Germanstown, MD    | 301-820-3136 | amelia.vincent@us.com                 | AV       |
| RAMPP                    | Taylor Asker   | 12420 Milestone                     | Germanstown, MD    | 301-820-3474 | taylor.asher@us.com                   | TA       |
| Village of Esteral Beach | DAVE EMMERICH  | 7510 LAKESHORE DR. NEWPORT MI 48166 | Newport, MI 48166  | 248-997-8617 | emmerichd@insightbb.com insightbb.com | DE       |
| CE Raines Co             | Russ WITTMAN   | 17700 Fort                          | Riverview MI 48193 | 734-285 7510 | rwittman@charlesraines.com            | RW       |
| City of Gibraltar        | Derck Thiel    | 29450 Huron                         | Gibraltar MI 48173 | 734-676 9021 | dthiel@cityofgibraltar.com            | DT       |

**Monroe and Wayne County, MI – Lake Erie Discovery Meeting Sign-In Sheet**
**August 9, 2012**

Please sign in and confirm your contact information, making changes below as needed.

| Organization            | Name          | Address                         | St, City, ZIP   | Phone        | Email                            | Initials |
|-------------------------|---------------|---------------------------------|-----------------|--------------|----------------------------------|----------|
| Monroe Co.              | Royce MANIKO  | 125 EAST SECOND ST.             | Monroe MI 48161 | 734-240-7046 | royce.maniko@monroemichigan.org  | RM       |
| FEMA                    | Mike Hauke    | 536 S. Clark St                 | Chicago, IL     | 312-408-5367 | michael.hauke@fema.dhs.gov       | MJH      |
| CITY OF MONROE          | DAN SWALLOW   | 120 E First Monroe MI           | 48161           | 734-384-9131 | dan.swallow@monroemichigan.org   | DSS      |
| City of Monroe          | Patrick Lewis | 120 E. First Monroe MI          | 48161           | 734-384-9174 | patrick.lewis@monroemichigan.org | P.L.L.   |
| City of Monroe          | Terri Roberts | 120 E First St Monroe MI        | 48161           | 734-384-9163 | Ceald.Roberts@monroemichigan.gov | TR       |
| CITY OF TRENTON         | BILL HOGAN    | 2800 THIRD TRENTON MI           | 48103           | 734-675-8251 | WRHOGAN@TRENTON-MI.COM           | WH       |
| Village of Estral Beach | Danny Swindle | 7428 Lakeshore Newport MI       | 48166           | 734-586-7205 | DRSwindle@Charter.net            | DS       |
| "                       | Dave E        |                                 |                 |              |                                  |          |
| USACE                   | MARY WEIDEL   | 477 Michigan Ave Detroit MI     | 48226           | 313 2263393  | Mary.T.Weidel@usace.army.mil     | MW       |
| City of Flat Rock       | William Vack  | 25500 Gibraltar Rd Flat Rock MI | 48134           | 734-789-2778 | firechief@flatrockmi.org         | WV       |

**Monroe and Wayne County, MI – Lake Erie Discovery Meeting Sign-In Sheet**
**August 9, 2012**

Please sign in and confirm your contact information, making changes below as needed.

| Organization                         | Name            | Address        | St, City, ZIP | Phone             | Email                          | Initials |
|--------------------------------------|-----------------|----------------|---------------|-------------------|--------------------------------|----------|
| WOODHAVEN                            | John Hannessay  | 13500 Roselle  | Southgate     | (734) 341-1782    | woh@1701015.com<br>jhannessay@ | JH       |
| Wyandotte                            | MARK KOWALOWSKI | 3131 Biddle    | Wyandotte     | 734-324-4554      | MKOWALOWSKI@wyandotte.mi.gov   | mk       |
| FRENCHTOWN RESORT DISTRICT WYANDOTTE | LARRY SMITH     | 2879 WADSWORTH | MONROE        | (734) 288-3237    | RESORTDISTRICT@sbaglobal.net   | LS       |
| Berlin                               | MARY JO RYAN    | 8000 SWAN VIEW | Newport       | (734) 586-2187 x5 | maryjo@berlintwp.net           | mjr      |
| RAMPP                                | Heidi Carlin    |                |               | 410-725-7414      | heidi.carlin@urs.com           |          |
|                                      |                 |                |               |                   |                                |          |
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**Monroe and Wayne County, MI – Lake Erie Discovery Meeting Sign-In Sheet**
**August 9, 2012**

Please sign in and confirm your contact information, making changes below as needed.

| Organization         | Name            | Address            | St, City, ZIP    | Phone        | Email                           | Initials |
|----------------------|-----------------|--------------------|------------------|--------------|---------------------------------|----------|
| FRENCHTOWN TOWNSHIP  | ANNETTE HOOPER  | 2744 LILIAN        | MONROE MI 48162  | 734-242-5900 | annette@frenchtowncharterwp.org | Alt      |
| Mannik & Smith Group | Barry Buschmann | 1771 N. Dixie Hwy. | Monroe, MI 48162 | 734-289-2200 | bbuschmann@manksmithgroup.com   | B        |
|                      |                 |                    |                  |              |                                 |          |
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**Monroe and Wayne County, MI – Lake Erie Discovery Meeting Sign-In Sheet**

August 9, 2012

Please sign in and confirm your contact information, making changes below as needed.

| Organization        | Name            | Address         | St, City, ZIP      | Phone           | Email                        | Initials |
|---------------------|-----------------|-----------------|--------------------|-----------------|------------------------------|----------|
| CITY OF<br>LUNAPIER | GREG<br>STEWART | 4657<br>Buckeye | LLNA Pier<br>48157 | 784<br>848-6495 | GSTEWART@<br>CITYOFLUNAPIER. | GS       |
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# Attachment D-4

## Meeting Summary

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**Great Lakes Coastal Flood Study ([www.greatlakescoast.org](http://www.greatlakescoast.org))**  
**Monroe and Wayne County, MI – Lake Erie Discovery Meeting**  
**August 9, 2012 2:30 pm to 4:30 pm**  
**Woodhaven Community Center**  
**23101 Hall Rd., Woodhaven, MI 48183**

## Discussion Highlights

1. **Introductions and Welcome (see attached sign-in sheet)**
2. **Purpose and Intent of Today's Meeting (see attached slides)**
3. **Coastal Mapping and Flood Risk Topics (see attached slides)**
4. **NFIP Compliance (see attached slides)**
5. **Interactive Session A: Discuss Local Coastal Areas of Concern Using the Discovery Map**
  - Mr. Mark Kowalewski with the City of Wyandotte expressed several concerns.
    - Why are we using 50 years of data for the storm surge study and who decided this? Why not further back?
      - Answer: Mr. Mike Hanke with FEMA Region V explained that this was due to various input data such as meteorological, ice field, storm, and water surface data. Mr. Taylor Asher with RAMPP added that the Great Lakes Technical Workgroup decided on this methodology.
    - Will FEMA refund the \$30,000 the City of Wyandotte and other communities paid to appeal the Detroit River study?
      - Answer: There was no comment at the meeting. Title 44 Part 67 of the Code of Federal Regulations provides regulatory procedures for appeals.
    - Why are the flood maps being updated again when FEMA just updated the maps two years ago?
      - Answer: Mr. Hanke responded that the map updates are a part of Risk MAP, which is Congressionally authorized. Risk MAP is a different program from Map Mod, which previously funded Wayne and Monroe County Flood Insurance Rate Map (FIRM) updates. Mr. Hanke added that FEMA is determining coastal flood risk and not looking at riverine areas which was the focus of previous studies.
      - Mr. Kowalewski added that it is disruptive to his community to make so many map changes.
  - Mr. Pat Lewis from the City of Monroe asked if there will be one or two sets of maps and if the communities will have to interpolate between the two.
    - Answer: Mr. Hanke said it will depend on project schedules but FEMA does anticipate releasing two different sets of map panels, one set for riverine and one set for coastal. The revised Flood Insurance Rate Maps for riverine areas in Monroe County would not be held up or delayed to incorporate the results of the coastal study. FEMA does not want to delay the riverine maps and prevent someone impacted by the riverine study to potentially be removed from the Special Flood Hazard Area.



- A question was asked why communities were not informed in 2010 when the riverine maps were updated that the coastal study was coming.
  - Answer: Mr. Hanke answered that FEMA did not know what the study would involve back then, since Risk MAP was just newly implemented by Congress.
- Mr. Bernie Ciupak with the Village of Estral Beach asked for clarification on the Limit of Moderate Wave Action (LiMWA) and Zone VE products.
  - Answer: The LiMWA will be shown on the maps for informational purposes but is not regulatory. Zone VE areas are regulatory.
- A question was asked whether FEMA validates the data used for the storm surge analysis.
  - Answer: Mr. Asher said that nearly 150 storms were used to verify the storm surge model.
- A question was asked about the range of accuracy in the storm surge model results.
  - Answer: Mr. Asher said an accuracy of one foot or better is expected.
- Mr. Kowalewski with City of Wyandotte and Mr. Bill Hogan with City of Trenton were interested in obtaining the addresses/locations for the NFIP loss data and said that would be very useful to them.
  - Answer: Information on the specific address locations for damages/claims made and paid are only available from FEMA via a Freedom of Information Act request. Mr. David Schein at (312) 408-5539 or Ms. Catrina Covino at (312) 408-5522 may be contacted for help in obtaining this information.
- Mr. Paul Haley, Emergency Management Coordinator with City of Trenton, provided a copy of the Wayne County HMP and information on flooding concerns (mostly riverine).
- Mr. Royce Maniko, Monroe County Administrator, said that he and Mr. Jeff Boudrie, GIS, could provide data on coastal structures and land use.

## 6. Hazard Mitigation (see attached slides)

### 7. Interactive Session B: Mitigation Action Opportunities

- Mr. Maniko with Monroe County asked if there were matching funds available for grants.
  - Answer: Ms. Heidi Carlin with RAMPP said that it is a 75/25 match that could be a cash match or in-kind.
- Mr. Ciupak with the Village of Estral Beach discussed a HMGP coastal project within his community. Their project involved elevating pre-FIRM structures. Homeowners are using the lower area for storage and parking. This has inspired people to upgrade the housing stock and value in the community. Mr. Ciupak added that these grants protect property and upgrade the spirit and attitude in people's homes.

### 8. Close. The Lake Erie Discovery meeting was adjourned at approximately 5 pm.

These notes are an interpretation of discussions held. Please provide any additions or corrections to the originator within 5 days of the date signed; otherwise they will be assumed correct as written.

Prepared by: Amelia Vincent and Heidi Carlin

Date: October 2, 2012

cc: Distribution/Participants

Attachments: Discovery Meeting Sign-in Sheet

Slide Presentation



# Attachment D-5

## Meeting Evaluation Forms

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**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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**As a Result of this Meeting:**

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|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of my organization's role in the project and future activities. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

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\_\_\_\_\_

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The information presented was easy to understand. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Your contact information (Optional):

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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**As a Result of this Meeting:**

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| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of my organization's role in the project and future activities. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

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| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The information presented was easy to understand. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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Your contact information (Optional):

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form

August 9, 2012

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As a Result of this Meeting:

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| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of my organization's role in the project and future activities. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

*Would like to see good coordination between this program and the revised NEIP mapping prepared over the coming year.*

*Would like to see coordination with Frenchtown ongoing USACE Advanced Measures dike replacement program (new dikes installed and paid locally thru Ft. Resort Authority). Contact bbuschmann@mannikswithgroup.com for more info.*

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The handouts provided at this meeting were helpful (if applicable). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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Your contact information (Optional):

Name: *Barry Buschmann*

Organization: *Frenchtown Twp & Ftn. Resort Authority Engineer*

City: *Monroe*

County: *Monroe*

State: *MI*

E-mail: *bbuschmann@merricksmithgroup.com*

Phone: *734.289.2345*

Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form

August 9, 2012

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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As a Result of this Meeting:

|  |                                     |                          |                          |                          |                          |                          |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of my organization's role in the project and future activities. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                          |                                     |                          |                          |                          |                          |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

MONROE Mitigation Action Plan - no plans to use grant monies to complete this plan, holding up Estel Beech's House Raising grant efforts.



| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The time of the meeting was convenient for me. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The information presented was easy to understand. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Comments: \_\_\_\_\_  
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Your contact information (Optional):

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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**As a Result of this Meeting:**

|  |                          |                                     |                          |                          |                          |                          |
|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                          |                                     |                          |                          |                          |                          |
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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of my organization's role in the project and future activities. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                          |                          |                                     |                          |                          |                          |
|---|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

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\_\_\_\_\_

\_\_\_\_\_

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| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The time of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                          |                                     |                          |                          |                          |                          |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The information presented was easy to understand. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|--|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Comments: \_\_\_\_\_  
 \_\_\_\_\_

Your contact information (Optional):

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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**As a Result of this Meeting:**

|  |                          |                          |                          |                                     |                          |                          |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_

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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_

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| I have a better understanding of my organization's role in the project and future activities. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_

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|---|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

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| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The time of the meeting was convenient for me. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The information presented was easy to understand. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|

Comments: Handouts & Presentations should be coordinated  
 \_\_\_\_\_

Your contact information (Optional):

Name: Greg Stewart

Organization: \_\_\_\_\_

City: \_\_\_\_\_

County: \_\_\_\_\_

State: \_\_\_\_\_

E-mail: \_\_\_\_\_

Phone: \_\_\_\_\_

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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**As a Result of this Meeting:**

|  |                          |                                     |                          |                          |                          |                          |
|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of my organization's role in the project and future activities. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

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| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The time of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The information presented was easy to understand. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
 \_\_\_\_\_

Your contact information (Optional):

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

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| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|

**As a Result of this Meeting:**

|  |                                     |                          |                          |                          |                          |                          |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of my organization's role in the project and future activities. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

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| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The time of the meeting was convenient for me. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The information presented was easy to understand. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The handouts provided at this meeting were helpful (if applicable). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Comments: Thanks!

Your contact information (Optional):

Name: Rob Peven

Organization: Monroe Co.

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: rpeven@monroemi.org Phone: \_\_\_\_\_

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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**As a Result of this Meeting:**

|  |                          |                                     |                          |                          |                          |                          |
|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                          |                                     |                          |                          |                          |                          |
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| I have a better understanding of my organization's role in the project and future activities. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                          |                                     |                          |                          |                          |                          |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

*Mitigation Best Practices*  
*ESTRAL BEACH - Excellent*

*NEED HAZARDOUS MITIGATION PLAN*

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The time of the meeting was convenient for me. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The information presented was easy to understand. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: EXACT DEFINITIONS OF NEW TERMS AND CROSS SECTION  
DETAIL

|  |                          |                                     |                          |                          |                          |                          |
|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
 \_\_\_\_\_

Your contact information (Optional):

Name: Royce Maniko / County Administrator

Organization: MONROE County

City: MONROE 125 B 2nd 48161 County: MONROE State: MI

E-mail: royce\_maniko@monroemi.org Phone: 734-240-7046

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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**As a Result of this Meeting:**

|  |                                     |                          |                          |                          |                          |                          |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                                     |                          |                          |                          |                          |                          |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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|   |                                     |                          |                          |                          |                          |                          |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of my organization's role in the project and future activities. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                                     |                          |                          |                          |                          |                          |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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## Meeting Logistics:

|  |                                     |                          |                          |                          |                          |                          |
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| The location of the meeting was convenient for me. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | Comments: _____<br>_____            |                          |                          |                          |                          |                          |

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| The time of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | Comments: _____<br>_____ |                                     |                          |                          |                          |                          |

|   |                          |                                     |                          |                          |                          |                          |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The information presented was easy to understand. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | Comments: _____<br>_____ |                                     |                          |                          |                          |                          |

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|--|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|  | Comments: _____<br>_____ |                          |                                     |                          |                          |                          |

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|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|   | Comments: _____<br>_____ |                                     |                          |                          |                          |                          |

Your contact information (Optional):

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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**As a Result of this Meeting:**

|  |                                     |                          |                          |                          |                          |                          |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|   |                                     |                          |                          |                          |                          |                          |
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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of my organization's role in the project and future activities. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

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| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The time of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The information presented was easy to understand. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The handouts provided at this meeting were helpful (if applicable). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Comments: \_\_\_\_\_  
 \_\_\_\_\_

Your contact information (Optional):

Name: *PAUL L HALEY*

Organization: *CITY OF TRENTON - EMERGENCY MANAGEMENT COORDINATOR*

City: *TRENTON* County: *WAYNE* State: *MI*

E-mail: *phaley@trenton-mi.com* Phone: *734.777.6670*

**Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form**

**August 9, 2012**

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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**As a Result of this Meeting:**

|  |                          |                                     |                          |                          |                          |                          |
|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I have a better understanding of my organization's role in the project and future activities. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

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| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
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## Meeting Logistics:

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| The location of the meeting was convenient for me. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The time of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| The information presented was easy to understand. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I preferred this meeting's format to others I've attended. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| The handouts provided at this meeting were helpful (if applicable). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
 \_\_\_\_\_

Your contact information (Optional):

Name: *BERNIE CUPAK*

Organization: *Village of ESTER BEACH*

City: \_\_\_\_\_ County: *MONROE* State: *MI*

E-mail: *BFCBERNIE@AOL.COM* Phone: *734 285 2986*

Monroe and Wayne County, MI  
Lake Erie Discovery Meeting Evaluation Form

August 9, 2012

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|

As a Result of this Meeting:

|  |                                     |                          |                          |                          |                          |                          |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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| I have a better understanding of my organization's role in the project and future activities. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

MDEQ SHOULD HAVE ATTENDED TO ADDRESS FLOOD PLAIN PERMIT AND ENFORCEMENT ISSUES.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

| Statement | Strongly Agree | Somewhat Agree | Neither Agree Nor Disagree | Somewhat Disagree | Strongly Disagree | Not Applicable |
|-----------|----------------|----------------|----------------------------|-------------------|-------------------|----------------|
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## Meeting Logistics:

|  |                                     |                          |                          |                          |                          |                          |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The location of the meeting was convenient for me. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments: \_\_\_\_\_  
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|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The time of the meeting was convenient for me. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Comments: ~~AM SESSIONS WORK BETTER FOR ME~~  
 AM SESSIONS WORK BETTER FOR ME

|   |                                     |                          |                          |                          |                          |                          |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The information presented was easy to understand. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Comments: \_\_\_\_\_  
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|  |                                     |                          |                          |                          |                          |                          |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I preferred this meeting's format to others I've attended. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Comments: INTERACTIVE SESSIONS WERE VERY HELPFUL

|   |                                     |                          |                          |                          |                          |                          |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| The handouts provided at this meeting were helpful (if applicable). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Comments: \_\_\_\_\_  
 \_\_\_\_\_

Your contact information (Optional):

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

Attachment D-6  
Mitigation Action Form

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# Mitigation Action Form



## Purpose and Help

This form is meant to assist the collection of Mitigation Actions.

Online Mitigation Action Collection:

<http://fema.starr-team.com>

State Hazard Mitigation Officers Directory:

<http://www.fema.gov/about/contact/shmo.shtm>

## Your Information

Please enter the primary contact associated with this Mitigation Action.

### 1. Full Name *Required*

Please provide your full name, e.g.: Michael Smith

---

### 2. Email Address *Required*

Please provide your email address, e.g.: example@example.com

---

### 3. Your Title and Organization *Required*

Please provide your relevant title and organization as it applies to this form, e.g.: Floodplain Administrator for City of Boulder, Colorado.

---

## Mitigation Action Information

Below please enter information as it directly applies to the mitigation action you are discussing.

### 4. Jurisdiction Name(s) *Required*

Please provide the full name of the jurisdiction where the Mitigation Action applies, e.g.: City of Boulder, CO

---

### 5. Mitigation Activity Name *Required*

The Mitigation Activity Name should be concise yet descriptive. For example, flood acquisition projects along south side of Main St.

---

### 6. Mitigation Action Status *Required*

Please check the appropriate box. The Mitigation Action Status defines the current stage of the action. For example, a 'Scoped' status suggests that the action has been scoped or funded with intentions to move to 'In Progress' and advance toward 'Completion'.

Identified     Scoped     In Progress     Completed

### 7. Mitigation Action Source *Required*

Please check the appropriate box. The Mitigation Action Source defines the source/process that identified or refined the action or changing its status.

Risk MAP Process                       Capital Improvement Plan  
 Local Mitigation Plan                 Comprehensive Plan  
 HMA Database                             Other \_\_\_\_\_

If this Mitigation Action was identified during the RiskMAP Process, please indicate the name of the RiskMAP Project.

---

### 8. Mitigation Plan Name

If known, please provide existing plan name. The Mitigation Plan Name refers to the local Hazard Mitigation Plan adopted by this jurisdiction(s). For example, Winnebago County, IL Multi-Jurisdictional Hazard Mitigation Plan.

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← Scan this image with your smartphone to visit the Mitigation Action Collection website. This site is in beta and will change prior to implementation.

### 9. Hazard Type *Required*

Select the main type of hazard affected by this Mitigation Action. Check/circle only one.

- |  |                                       |                                       |
|--|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> Coastal Erosion   | <input type="checkbox"/> Hurricane    | <input type="checkbox"/> Wildfire     |
| <input type="checkbox"/> Dam/Levee Failure | <input type="checkbox"/> Landslide    | <input type="checkbox"/> Wind         |
| <input type="checkbox"/> Drought           | <input type="checkbox"/> Thunderstorm | <input type="checkbox"/> Winter Storm |
| <input type="checkbox"/> Earthquake        | <input type="checkbox"/> Tornado      | <input type="checkbox"/> Other _____  |
| <input type="checkbox"/> Flood             | <input type="checkbox"/> Tsunami      |                                       |

### 10. Mitigation Category *Required*

Select the type of Mitigation effort being undertaken. Check/circle only one.

- |   |  |
|---|--|
| <input type="checkbox"/> Building Code                | <input type="checkbox"/> Management Best Practices |
| <input type="checkbox"/> Community Identified Program | <input type="checkbox"/> Mitigation Project        |
| <input type="checkbox"/> Land Use Ordinance           | <input type="checkbox"/> Other _____               |

### 11. Category Type and Subtype *Required if Applicable. See Part B: Reference Sheet*

Please see Part B, Reference Sheet for applicable Category types and subtypes. Thank you for your patience in filling out this form. More complete and accurate data helps FEMA be more efficient with time and dollars.

Type: \_\_\_\_\_ Subtype: \_\_\_\_\_

### 12. Mitigation Action Commitment *Required*

Please indicate the level of commitment associated with this Mitigation Action. Check/circle only one. The Mitigation Commitment seeks to clarify if the action is a new activity for the community as opposed to maintaining or strengthening something the community is already supporting. For example, a community may seek to "Strengthen Existing" flood ordinances by adopting higher freeboard standards.

- Add New
- Strengthen Existing
- Maintain Existing

### 13. Responsible Agency *Required*

Please indicate the Agency that will be responsible for this Mitigation Action. Check/circle only one.

- |  |                                       |
|--|---------------------------------------|
| <input type="checkbox"/> Building Code                         | <input type="checkbox"/> Planning     |
| <input type="checkbox"/> Community Development                 | <input type="checkbox"/> Public Works |
| <input type="checkbox"/> Emergency Management                  | <input type="checkbox"/> State DOT    |
| <input type="checkbox"/> First Responders (Fire, Police, etc.) | <input type="checkbox"/> Other _____  |
| <input type="checkbox"/> National Guard                        |                                       |

### 14. Estimated Project Span

Enter the estimated start and completion of the project. Please use the mm/dd/yyyy format.

Start: \_\_\_\_\_ Completion: \_\_\_\_\_

### 15. Estimated Cost

Enter the estimated cost for the project. The Estimated Cost for the mitigation activity does not have to be precise. Rather it could be used for general planning or budgeting purposes. Results may also allow officials associate actions with Hazard Mitigation Assistance resources where/when available.

\$ \_\_\_\_\_

### 16. Funding Source *Required*

Please indicate the expected funding source for the project. Check/circle only one.

- |   |   |
|---|---|
| <input type="checkbox"/> Community      | <input type="checkbox"/> State                      |
| <input type="checkbox"/> County         | <input type="checkbox"/> Other Federal Agency _____ |
| <input type="checkbox"/> FEMA           | <input type="checkbox"/> Other _____                |
| <input type="checkbox"/> Private        |   |
| <input type="checkbox"/> Property Owner |   |

### 17. Funding Source Type *Required if Applicable. See Part B: Reference Sheet*

Please see Part B, Reference Sheet for applicable funding types.

\_\_\_\_\_

### 18. Additional Details

If you would like to enter additional information please fill in the space below.



← Scan this image with your smartphone to visit the Mitigation Action Collection website. This site is in beta and will change prior to implementation.

# Mitigation Action Form



## Part B : Reference Sheet

### Category Types and SubTypes

Use for answering Question 11.

#### Land Use

- Coastal Zone Management
- Conduct Safe Growth
- Floodplain Management
- Open Space Preservation
- Stormwater Management
- Subdivision Ordinance
- Zoning
- Other

#### Building Code

- Enforcement
- International Building Code
  - 2009
  - 2012
  - 2015
  - 2018
  - Other
- International Residential Code
  - 2009
  - 2012
  - 2015
  - 2018
  - Other
- Local or Enhanced Building Code
- Post Disaster Code Enforcement
- Other

#### Management Best Practices

- Integrate Natural Hazards into Planning Mechanisms
- Other

#### Mitigation Project

- Acquisition
- Elevation
  - Structure
  - Utilities
  - Other
- Flood Risk Management
  - Bridge
  - Culvert
  - Dams
  - Debris
  - Drainage Improvements
  - Jetties
  - Levees
  - Removal
  - Revetments
  - Seawalls
  - Other
- Forest or Vegetation Management
- Natural Systems Restoration
  - Beach
  - Dune Rehabilitation
  - Nourishment
  - Wetlands
  - Other
- Soil Stabilization or Erosion Control
- Retrofit
  - Non-Structural
  - Structural
  - Other
- Safe Room Construction
- Underground Utilities
- Other

#### Community Identified Program

- CRS
- Firewise
- NFIP
- StormReady
- Other



← Scan this image with your smartphone to visit the Mitigation Action Collection website. This site is in beta and will change prior to implementation.

## **Funding Types**

Use for answering Question 17.

### **Other Community**

- **Bonds**
- **General Funds**
- **Tax Levies**
- **Other**

### **FEMA**

- **FMA-Flood Mitigation Assistance**
- **HMGP-Hazard Mitigation Grant Program**
- **PA-Public Assistance**
- **RFC-Repetitive Flood Claims**
- **SRL-Severe Repetitive Loss**
- **Other**

### **Other Federal Agency**

- **BIA**
- **DOT**
- **EPA**
- **HUD**
- **NOAA**
- **USGS**
- **Other**

### **Private**

### **Property Owner**

### **State**

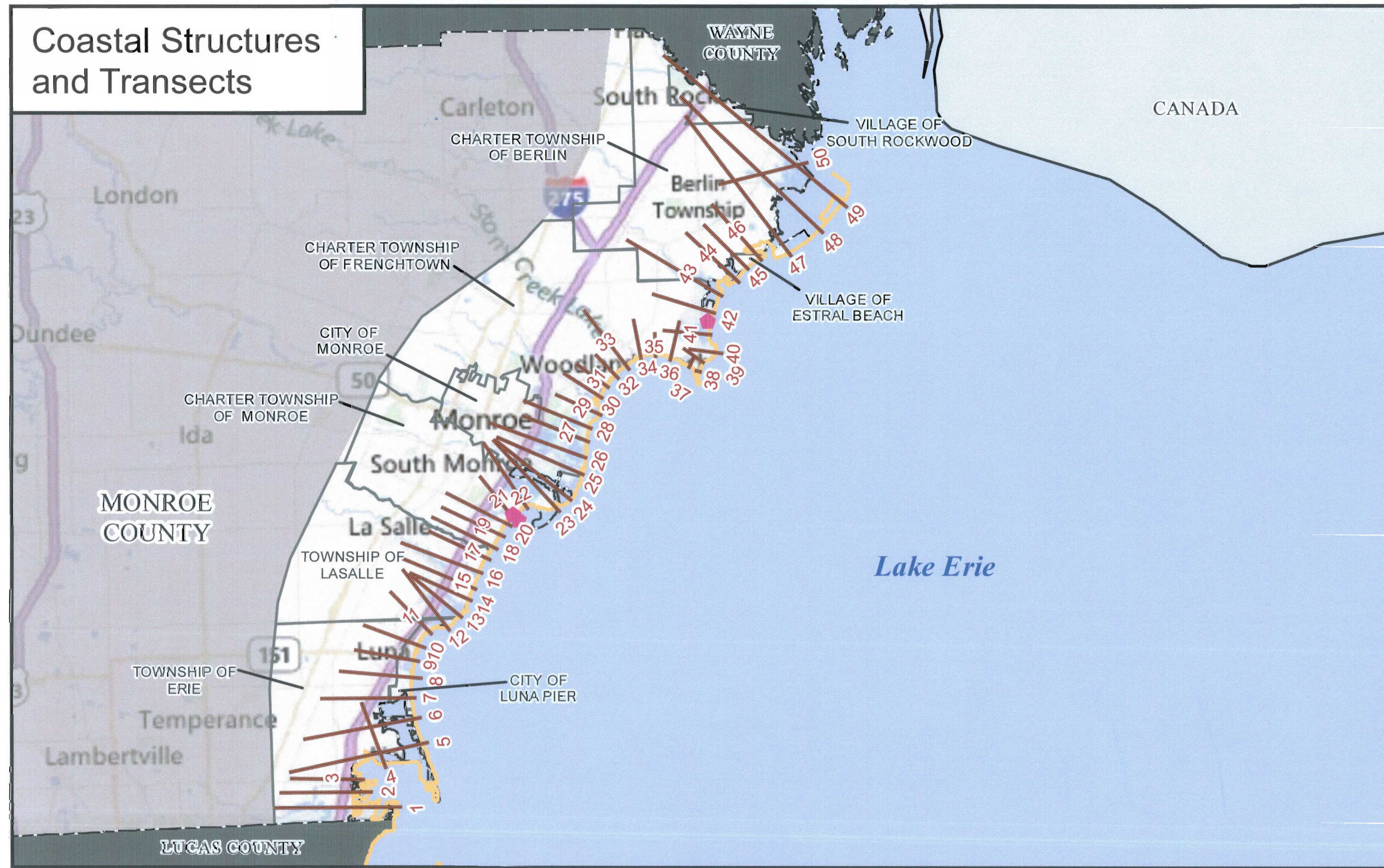
### **Other**



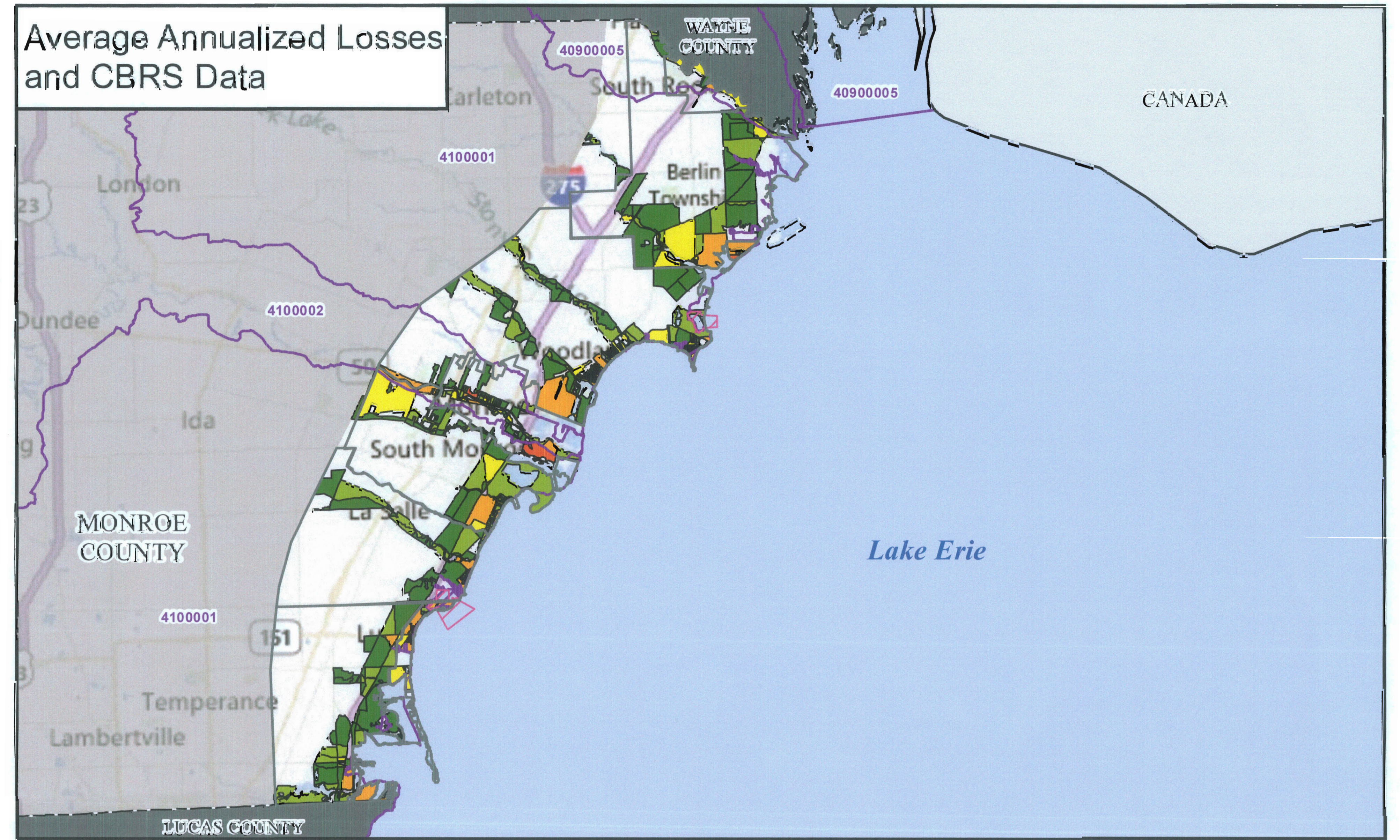
Attachment D-7  
Discovery Map Comments from  
Meeting

---

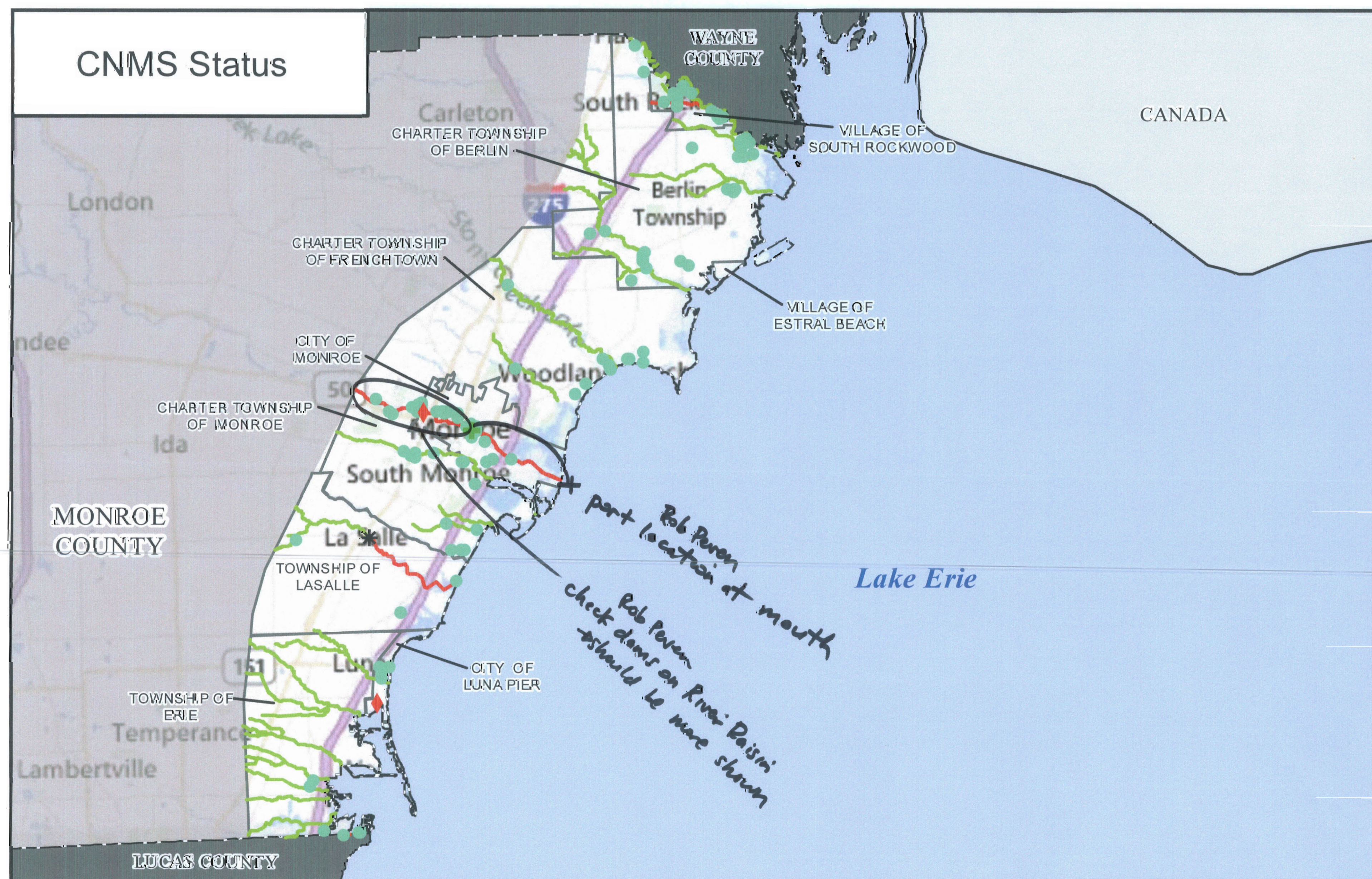
### Coastal Structures and Transects



### Average Annualized Losses and CBRS Data



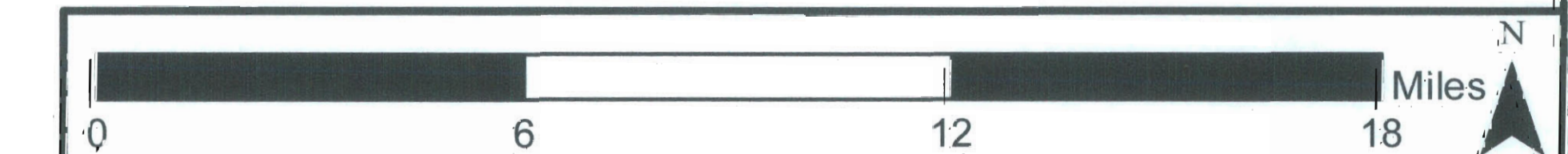
### CNMS Status



| NFIP Total Losses               |              |               |             |             |                     |
|---------------------------------|--------------|---------------|-------------|-------------|---------------------|
| Community                       | Total Losses | Closed Losses | Open Losses | CWQP Losses | Total Payments (\$) |
| Berlin, Charter Township of     | 97           | 72            | 0           | 25          | 267,059             |
| Erie, Township of               | 237          | 200           | 0           | 37          | 746,894             |
| Estral Beach, Village of        | 57           | 45            | 0           | 12          | 175,823             |
| Frenchtown, Charter Township of | 297          | 231           | 0           | 66          | 1,104,708           |
| La Salle, Township of           | 252          | 204           | 0           | 48          | 1,109,401           |
| Luna Pier, City of              | 246          | 202           | 0           | 44          | 1,117,115           |
| Monroe, Charter Township of     | 161          | 120           | 0           | 41          | 823,612             |
| Monroe, City of                 | 88           | 55            | 0           | 33          | 221,933             |
| South Rockwood, Village of      | 2            | 2             | 0           | 0           | 8,745               |

| Declared Disasters |            |        |      |               |                          |
|--------------------|------------|--------|------|---------------|--------------------------|
| State              | Date       | County | Type | Incident Type | Title                    |
| MI                 | 12/01/1972 | Monroe | DR   | Flood         | Severe Storms & Flooding |
| MI                 | 04/12/1973 | Monroe | DR   | Flood         | Severe Storms & Flooding |
| MI                 | 03/29/1982 | Monroe | DR   | Flood         | Flooding                 |

| Hazard Mitigation Action       |                    |                      |   |
|--------------------------------|--------------------|----------------------|---|
| Name of Hazard Mitigation Plan | Plan Approval Date | Plan Expiration Date | Hazard Mitigation Successes   |
| N/A                            | N/A                | N/A                  | Developed a cost estimate of elevating repetitive flood loss structures; primarily flood-prone homes in Estral Beach. |



### MAP SYMBOLOLOGY

|   |   |   |   |
|---|---|---|---|
| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">◆</span> Dam</li> <li><span style="color: green;">●</span> LOMC</li> <li><span style="color: brown;">—</span> Transect</li> <li><span style="color: yellow;">—</span> Shoreline</li> <li><span style="border: 1px solid purple; padding: 2px;"> </span> HUC 8</li> <li><span style="border: 1px solid pink; padding: 2px;"> </span> CBRS</li> <li><span style="background-color: lightgrey; border: 1px solid black; padding: 2px;"> </span> Discovery Area</li> <li><span style="background-color: darkgrey; border: 1px solid black; padding: 2px;"> </span> Surrounding County</li> <li><span style="background-color: grey; border: 1px solid black; padding: 2px;"> </span> County Boundary</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Municipal Boundary</li> </ul> | <ul style="list-style-type: none"> <li>* USGS Gage</li> <li><span style="color: green;">+</span> Port</li> <li><span style="color: pink;">●</span> Coastal Structure</li> </ul> | <p><b>MONROE COUNTY AAL DATA</b><br/>Total Average Annualized Losses per Census Block</p> <ul style="list-style-type: none"> <li><span style="background-color: darkgreen; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> \$1 - \$2,500</li> <li><span style="background-color: green; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> \$2,501 - \$100,000</li> <li><span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> \$100,001 - \$250,000</li> <li><span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> \$250,001 - \$750,000</li> <li><span style="background-color: red; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> \$750,001 - \$2,000,000</li> </ul> | <p><b>CNMS VALIDATION STATUS</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">—</span> UNVERIFIED</li> <li><span style="color: orange;">—</span> UNKNOWN</li> <li><span style="color: green;">—</span> VALID</li> </ul> |
|---|---|---|---|

### COASTAL STUDY LOCATOR



## NATIONAL FLOOD INSURANCE PROGRAM

### Discovery Map

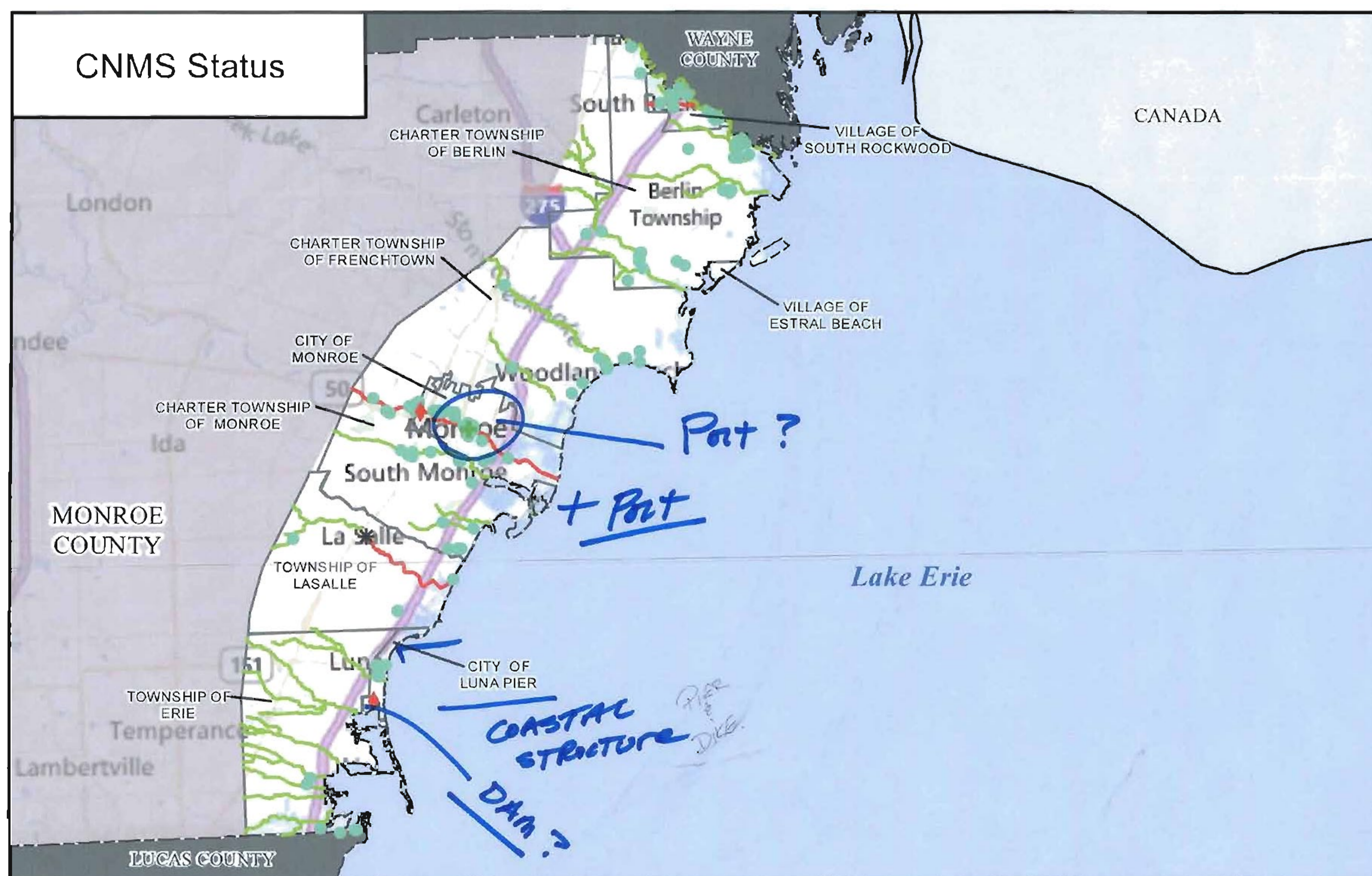
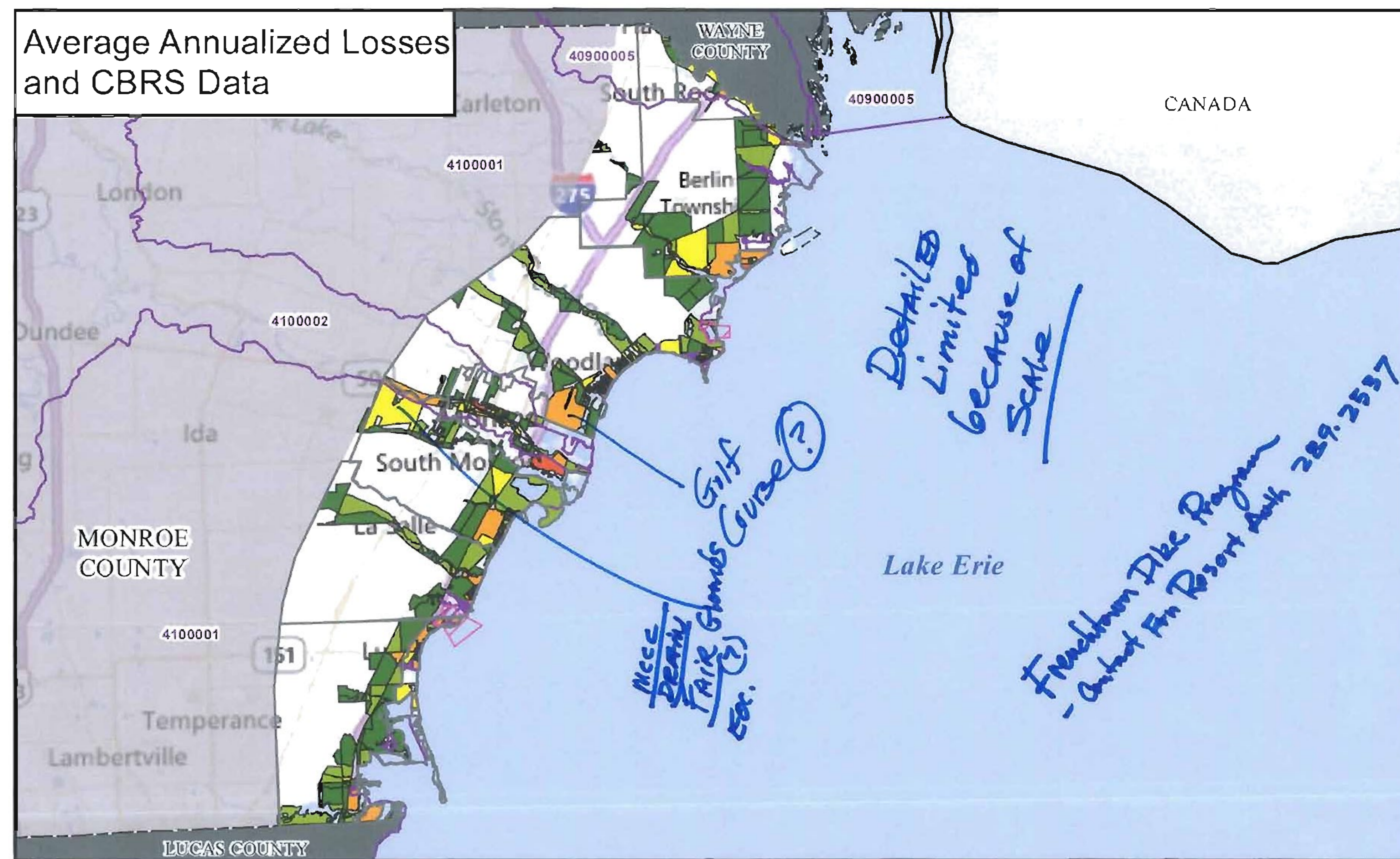
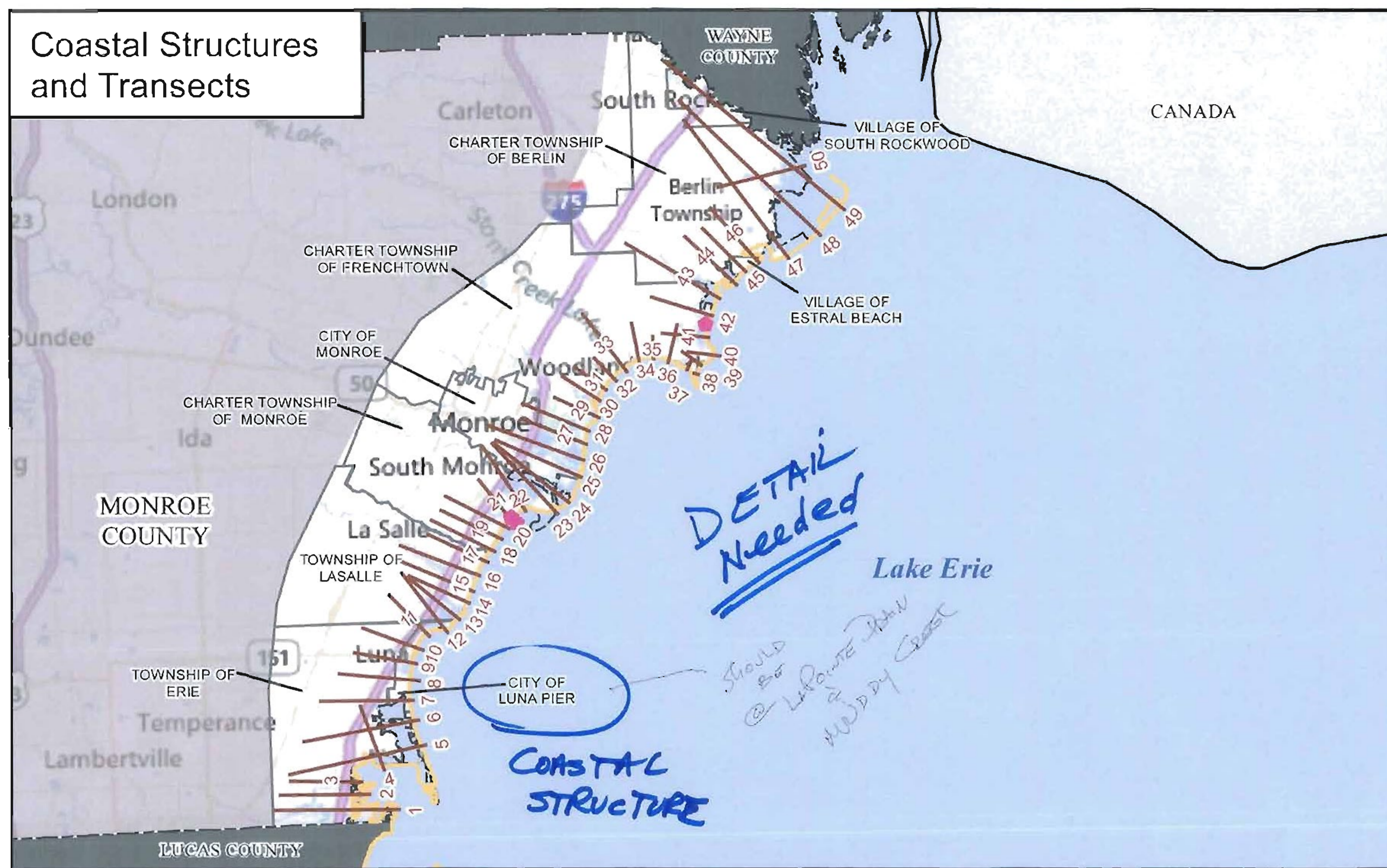
## LAKE ERIE COASTAL STUDY

### Monroe County, Michigan

|   |  |
|---|--|
| <p>Berlin, Charter Township of<br/>Erie, Township of<br/>Estral Beach, Village of<br/>Frenchtown, Charter Township of</p> | <p>La Salle, Township of<br/>Luna Pier, City of<br/>Monroe, Charter Township of<br/>Monroe, City of<br/>South Rockwood, Village of</p> |
|---|--|

# DRAFT MAP

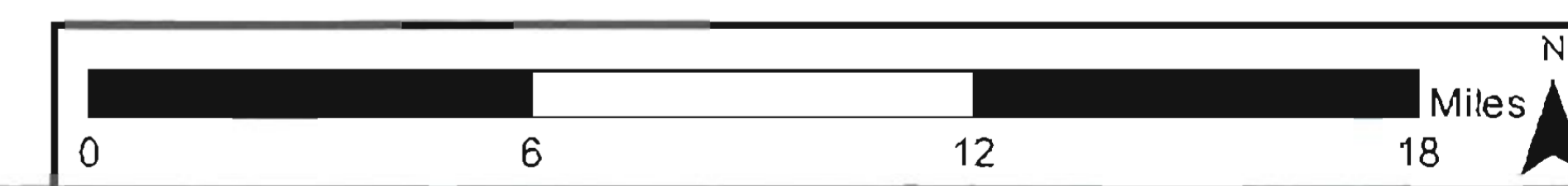
Discovery Meeting Date:  
August 9, 2012



| NFIP Total Losses               |              |               |             |             |                     |
|---------------------------------|--------------|---------------|-------------|-------------|---------------------|
| Community                       | Total Losses | Closed Losses | Open Losses | CWOP Losses | Total Payments (\$) |
| Berlin, Charter Township of     | 97           | 72            | 0           | 25          | 267,059             |
| Erie, Township of               | 237          | 200           | 0           | 37          | 746,894             |
| Estral Beach, Village of        | 57           | 45            | 0           | 12          | 175,823             |
| Frenchtown, Charter Township of | 297          | 231           | 0           | 66          | 1,104,708           |
| La Salle, Township of           | 252          | 204           | 0           | 48          | 1,109,401           |
| Luna Pier, City of              | 246          | 202           | 0           | 44          | 1,117,115           |
| Monroe, Charter Township of     | 161          | 120           | 0           | 41          | 823,612             |
| Monroe, City of                 | 88           | 55            | 0           | 33          | 221,903             |
| South Rockwood, Village of      | 2            | 2             | 0           | 0           | 8,745               |

| Declared Disasters |            |        |      |               |                          |
|--------------------|------------|--------|------|---------------|--------------------------|
| State              | Date       | County | Type | Incident Type | Title                    |
| MI                 | 12/01/1972 | Monroe | DR   | Flood         | Severe Storms & Flooding |
| MI                 | 04/12/1973 | Monroe | DR   | Flood         | Severe Storms & Flooding |
| MI                 | 03/29/1982 | Monroe | DR   | Flood         | Flooding                 |

| Hazard Mitigation Action       |                    |                      |   |
|--------------------------------|--------------------|----------------------|---|
| Name of Hazard Mitigation Plan | Plan Approval Date | Plan Expiration Date | Hazard Mitigation Successes   |
| N/A                            | N/A                | N/A                  | Developed a cost estimate of elevating repetitive flood loss structures; primarily flood-prone homes in Estral Beach. |



### MAP SYMBOLOGY

| LEGEND |                    | MONROE COUNTY AAL DATA |                         | CNMS VALIDATION STATUS |            |
|--------|--------------------|------------------------|-------------------------|------------------------|------------|
|        | Dam                |                        | \$1 - \$2,500           |                        | UNVERIFIED |
|        | LOMC               |                        | \$2,501 - \$100,000     |                        | UNKNOWN    |
|        | Transect           |                        | \$100,001 - \$250,000   |                        | VALID      |
|        | Shoreline          |                        | \$250,001 - \$750,000   |                        |            |
|        | HUC 8              |                        | \$750,001 - \$2,000,000 |                        |            |
|        | CBRS               |                        |                         |                        |            |
|        | Discovery Area     |                        |                         |                        |            |
|        | Surrounding County |                        |                         |                        |            |
|        | County Boundary    |                        |                         |                        |            |
|        | Municipal Boundary |                        |                         |                        |            |
|        | USGS Gage          |                        |                         |                        |            |
|        | Port               |                        |                         |                        |            |
|        | Coastal Structure  |                        |                         |                        |            |

### COASTAL STUDY LOCATOR



## NATIONAL FLOOD INSURANCE PROGRAM Discovery Map

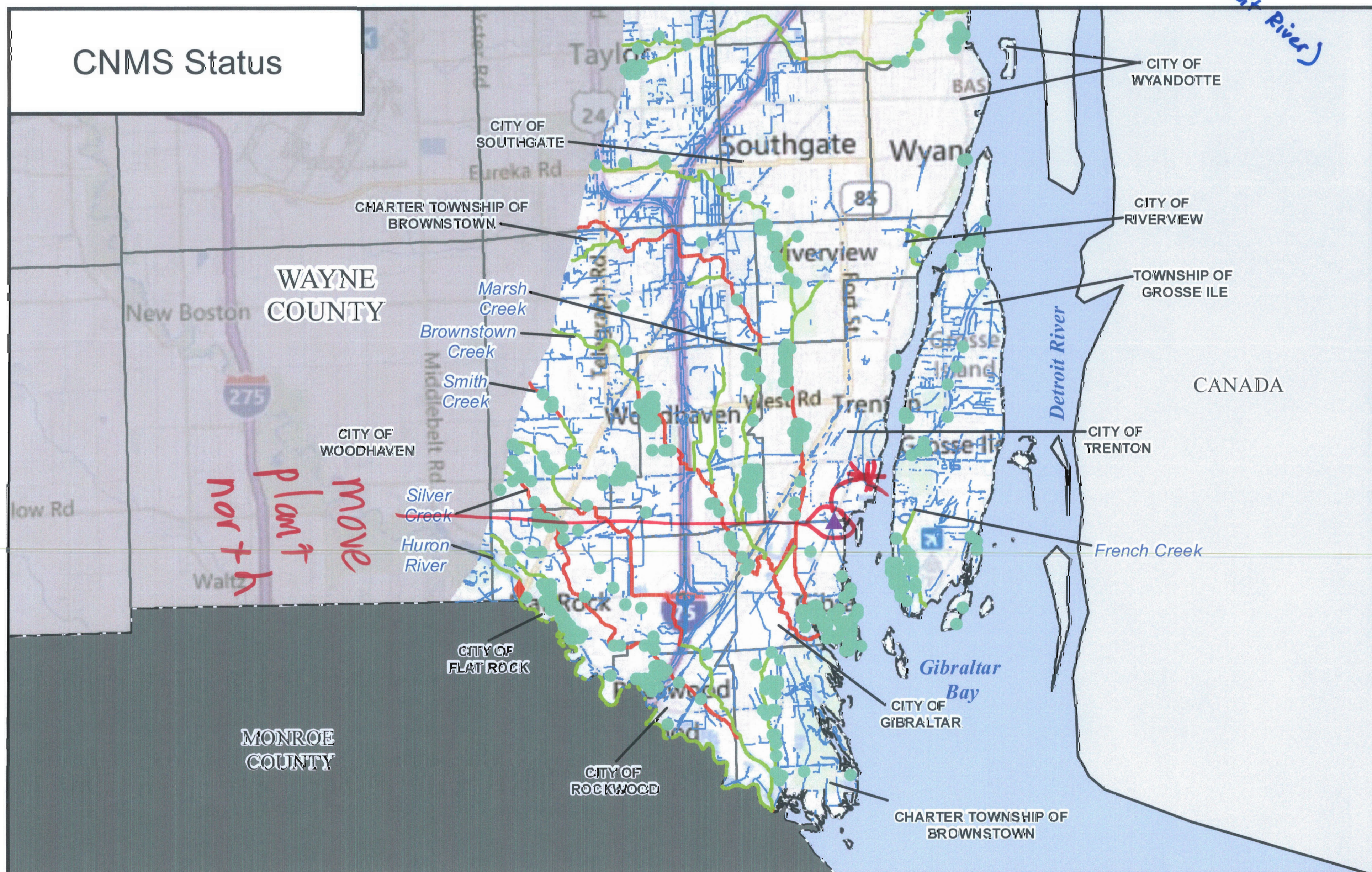
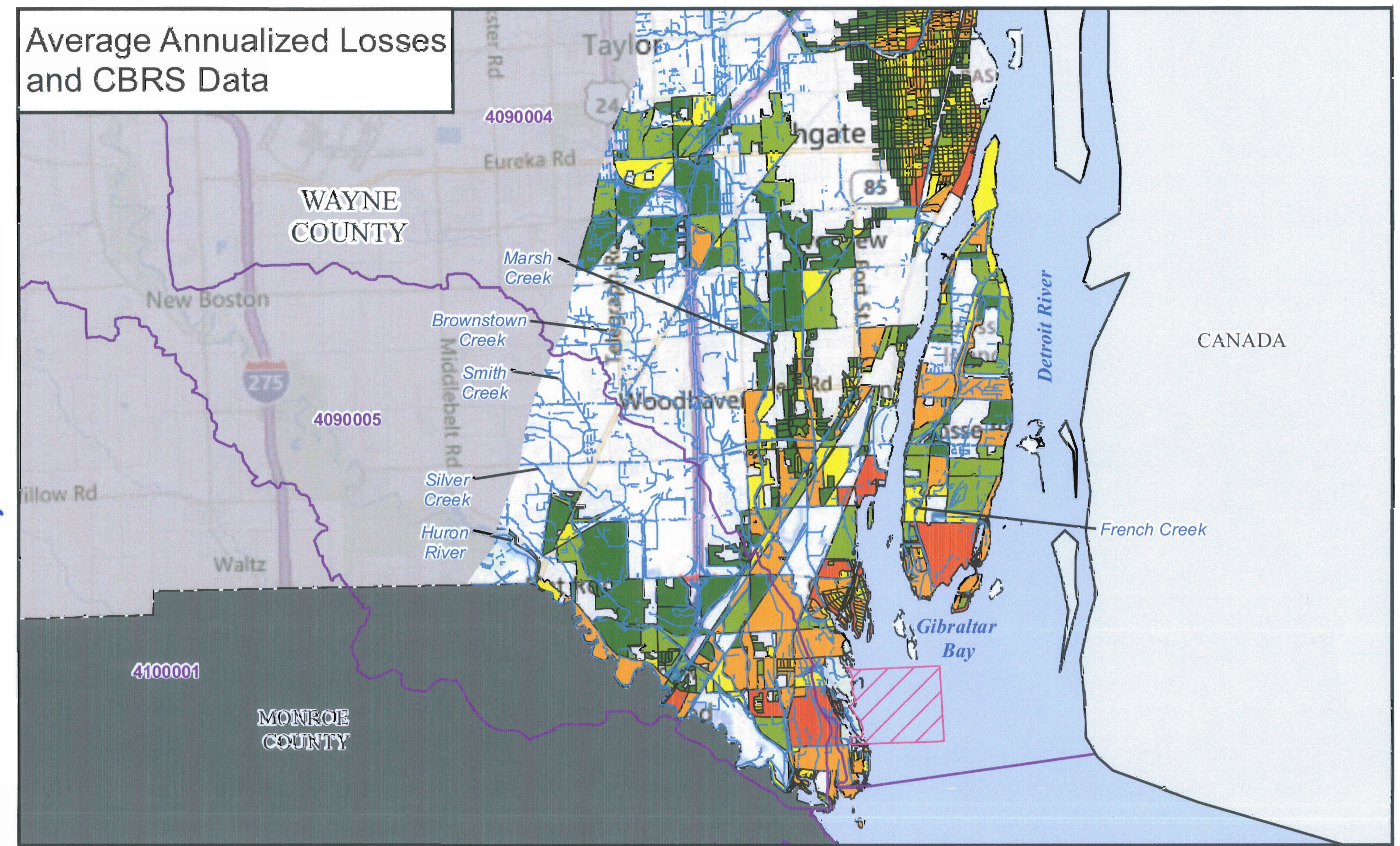
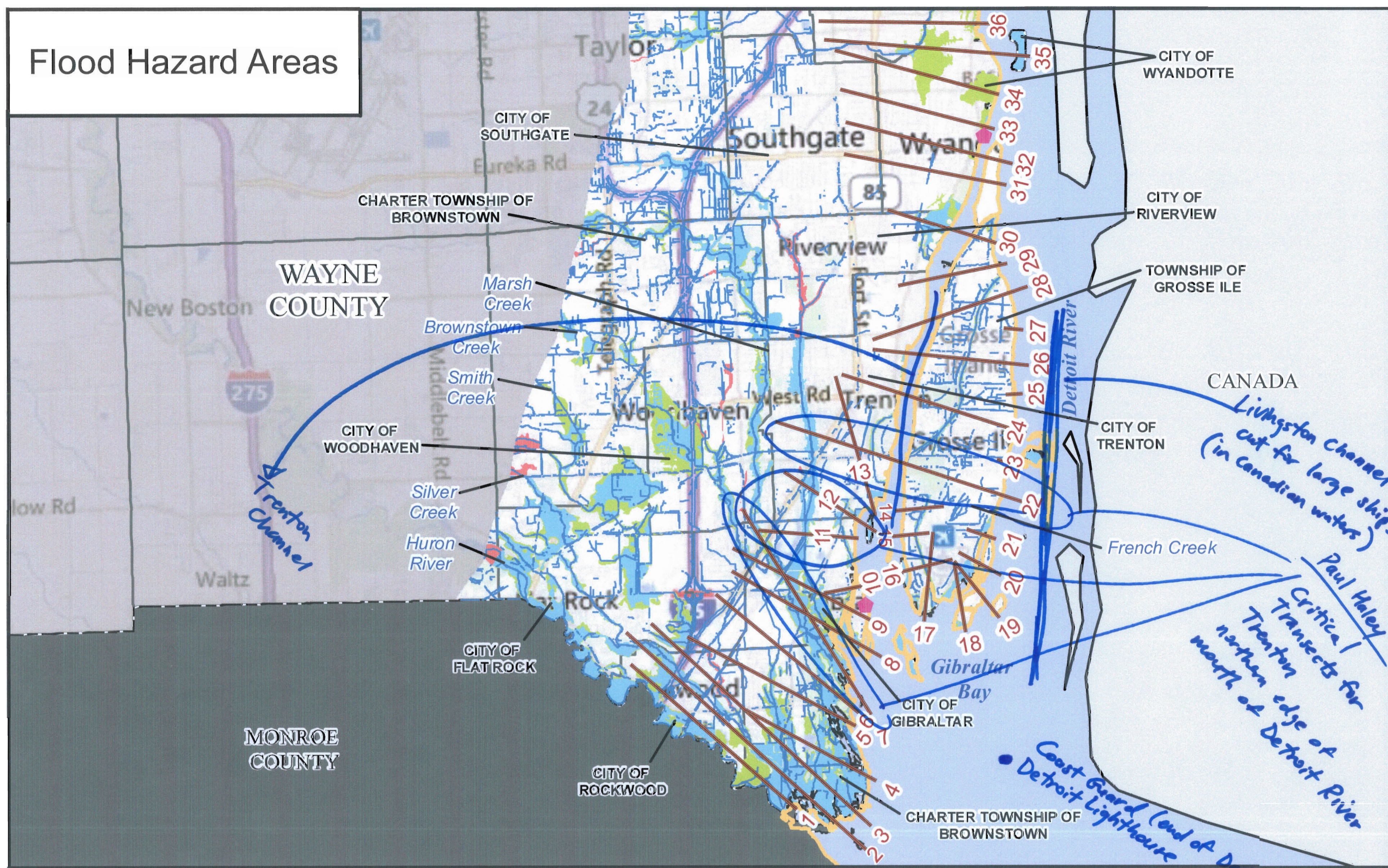
### LAKE ERIE COASTAL STUDY Monroe County, Michigan

Berlin, Charter Township of  
Erie, Township of  
Estral Beach, Village of  
Frenchtown, Charter Township of

La Salle, Township of  
Luna Pier, City of  
Monroe, Charter Township of  
Monroe, City of  
South Rockwood, Village of

# DRAFT MAP

Discovery Meeting Date:  
August 9, 2012



#### NFIP Total Losses

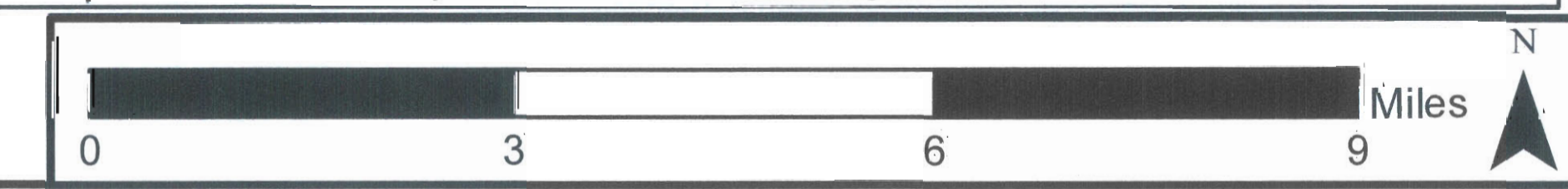
| Community                       | Total Losses | Closed Losses | Open Losses | CWOP Losses | Total Payments (\$) |
|---------------------------------|--------------|---------------|-------------|-------------|---------------------|
| Brownstown, Charter Township of | 85           | 50            | 0           | 35          | 200,360             |
| Dearborn, City of               | 24           | 10            | 0           | 14          | 46,119              |
| Detroit, City of                | 188          | 89            | 0           | 99          | 313,011             |
| Ecorse, City of                 | 3            | 1             | 0           | 2           | 6,363               |
| Flat Rock, City of              | 16           | 4             | 0           | 12          | 16,701              |
| Gibraltar, City of              | 553          | 432           | 0           | 121         | 1,812,971           |
| Grosse Ile, Township of         | 52           | 29            | 0           | 23          | 129,993             |
| Lincoln Park, City of           | 33           | 13            | 0           | 20          | 54,409              |
| Melvindale, City of             | N/A          | N/A           | N/A         | N/A         | N/A                 |
| River Rouge, City of            | 3            | 3             | 0           | 0           | 378                 |
| Riverview, City of              | 3            | 3             | 0           | 0           | .00                 |
| Rockwood, City of               | 28           | 20            | 0           | 8           | 103,242             |
| Southgate, City of              | N/A          | 0             | N/A         | N/A         | .00                 |
| Trenton, City of                | 33           | 17            | 0           | 16          | 67,820              |
| Wayne County                    | N/A          | N/A           | N/A         | N/A         | N/A                 |
| Woodhaven, City of              | 4            | 0             | 0           | 4           | .00                 |
| Wyandotte, City of              | 41           | 18            | 0           | 23          | 107,005             |

#### Declared Disasters

| State | Date       | County | Type | Incident Type | Title                                       |
|-------|------------|--------|------|---------------|---|
| MI    | 12/01/1972 | Wayne  | DR   | Flood         | Severe Storms & Flooding                    |
| MI    | 04/12/1973 | Wayne  | DR   | Flood         | Severe Storms & Flooding                    |
| MI    | 03/19/1976 | Wayne  | DR   | Severe Storms | Severe Storms, Tornadoes, Icing, & Flooding |
| MI    | 09/08/1980 | Wayne  | DR   | Flood         | Severe Storms & Flooding                    |
| MI    | 07/11/1997 | Wayne  | DR   | Severe Storms | Severe Storms, Tornadoes, & Flooding        |
| MI    | 10/17/2000 | Wayne  | DR   | Severe Storms | Severe Storms & Flooding                    |
| MI    | 06/30/2004 | Wayne  | DR   | Severe Storms | Severe Storms, Tornadoes, & Flooding        |

#### Hazard Mitigation Action

| Name of Hazard Mitigation Plan      | Plan Approval Date | Plan Expiration Date | Hazard Mitigation Successes  |
|-------------------------------------|--------------------|----------------------|--|
| Wayne County Hazard Mitigation Plan | 04/27/2006         | 06/22/2012           | 2004 completion of restricted catch basin covers to allow water during heavy rainstorms to be detained on the street and slow down the intensity of stormwater entering the combined sewer system. |



### MAP SYMBOLOGY

**LEGEND**

- Dam
- LOMC
- Transect
- Shoreline
- HUC 8
- CBRS
- Stream
- Discovery Area
- Surrounding County
- County Boundary
- Municipal Boundary
- Power Reactor Unit
- Coastal Structure

**WAYNE COUNTY AAL DATA**  
Total Average Annualized Losses per Census Block

- \$1 - \$2,500
- \$2,501 - \$100,000
- \$100,001 - \$250,000
- \$250,001 - \$750,000
- \$750,001 - \$2,000,000

**CNMS VALIDATION STATUS**

- UNVERIFIED
- UNKNOWN
- VALID

**SPECIAL FLOOD HAZARD AREAS**

- A
- AE
- 0.2 PCT ANNUAL CHANCE FLOOD

### COASTAL STUDY LOCATOR



### NATIONAL FLOOD INSURANCE PROGRAM

#### Discovery Map

#### LAKE ERIE COASTAL STUDY

Wayne County, Michigan (Map 1 of 2)

Brownstown, Charter Township of  
Dearborn, City of  
Detroit, City of  
Ecorse, City of  
Flat Rock, City of  
Gibraltar, City of

Grosse Ile, Township of  
Lincoln Park, City of  
Melvindale, City of  
River Rouge, City of  
Riverview, City of  
Rockwood, City of

Southgate, City of  
Trenton, City of  
Wayne County  
Woodhaven, City of  
Wyandotte, City of

**DRAFT MAP**

Discovery Meeting Date: August 9, 2012

RAMPP FEMA