

Appendix D-2  
Ashtabula and Lake Counties, OH  
Discovery Report

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# Discovery Report

**Great Lakes Coastal Flood Study**

**Lake Erie**

**Ashtabula County and Lake County, Ohio**

**Individual Discovery Report**

**Report Number 01**

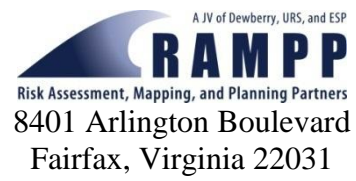
**March 2013**



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

<hr/> <b>Ashtabula County</b> <hr/>	<hr/> <b>Lake County</b> <hr/>
Ashtabula County (Unincorporated Areas)	Lake County (Unincorporated Areas)
City of Ashtabula	City of Eastlake
City of Conneaut	Village of Fairport Harbor
Village of Geneva-on-the-Lake	Village of Grand River
Village of North Kingsville	Village of Lakeline
	City of Mentor
	City of Mentor-on-the-Lake
	Village of North Perry
	Village of Timberlake
	City of Willoughby
	City of Willowick

This list includes the communities within the Project Area covered by this report for the Great Lakes Coastal Study under consideration for new Federal Emergency Management Agency (FEMA) 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/updated FEMA Risk MAP products and datasets or FISs and FIRMs.



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- 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
LESEMP	Lake Erie Shore Erosion Management Plan
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
NWS	National Weather Service
OCMP	Ohio Coastal Management Program

## Acronyms and Abbreviations

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ODNR	Ohio Department of Natural Resources
Risk MAP	Risk Mapping, Assessment, and Planning
SFHA	Special Flood Hazard Area
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 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 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 use 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 (FISs) 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 in order to improve community resiliencies related to flood losses (life, property, and business).

This Discovery Report discusses the communities potentially affected by coastal flooding in Ashtabula and Lake Counties, Ohio as shown in Figure 1.

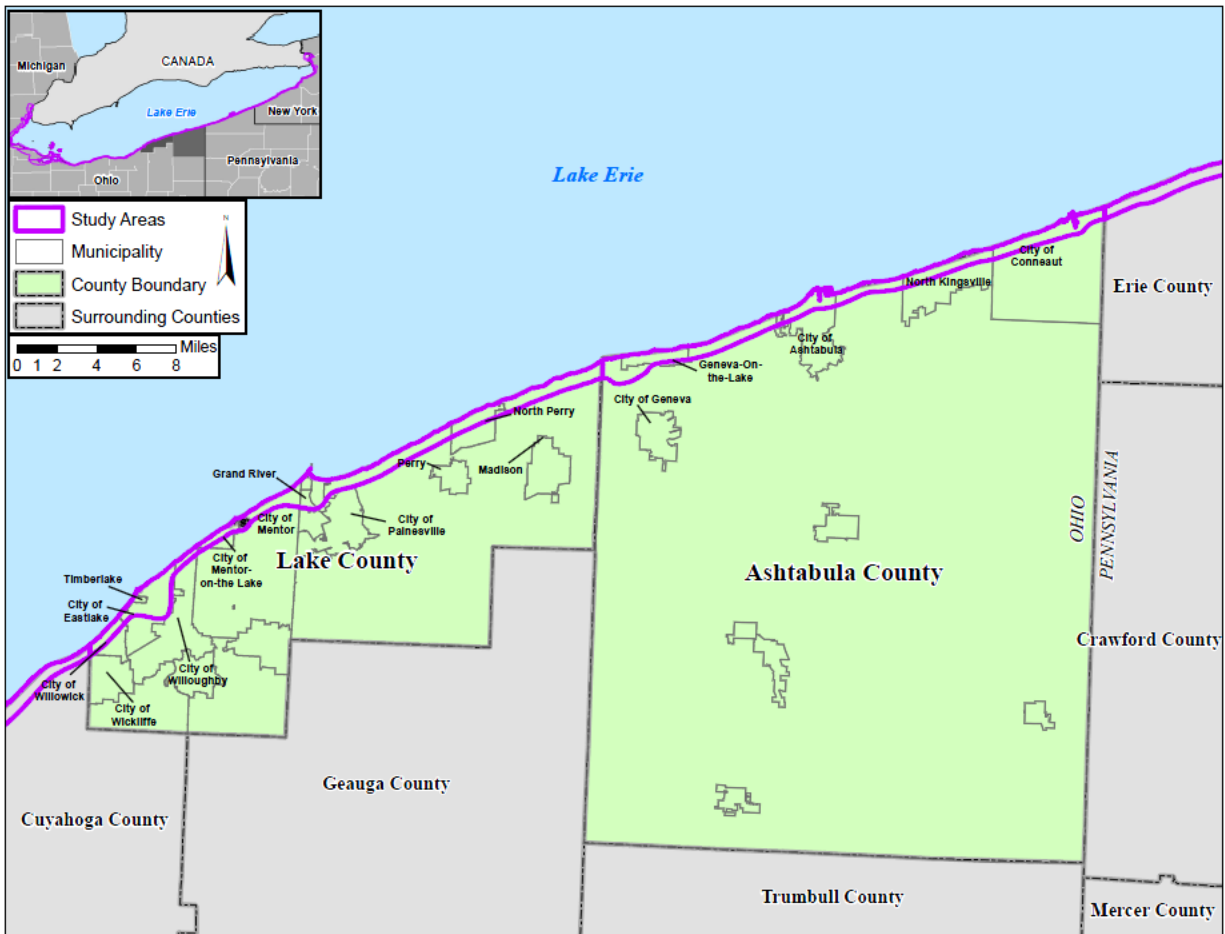


Figure 1: Project Area Map

### 1.3 COASTAL FLOOD RISK PRODUCTS

The Risk MAP Program will provide State and community officials with three flood risk products to help them understand 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 (Ashtabula and Lake Counties, OH) is included in the Attachments. A total of 90 invitations were sent to stakeholders within the Ashtabula and Lake 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, county officials were invited to participate in the Discovery Meetings. See the Attachments for a complete list of the stakeholders who were 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 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 Ashtabula and Lake Counties, OH**

<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	March 2012	Countywide
Contacts	Discovery Report	Local Community web sites, State/FEMA Updates	June 2012	Countywide
Community Assistance Visits	Discovery Report	FEMA Community Information System (CIS) Ohio Department of Natural Resources (ODNR)	May 2012	Countywide
Community Rating System	Discovery Report	FEMA's "Community Rating System Communities and Their Classes"	May 2012	Nationwide
Comprehensive Plans	Discovery Report	Local Community Web sites	May 2012	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	ODNR	Dec. 2011*	Statewide
Critical Facilities	Discovery Report	Local Mitigation Plans	May 2012	Countywide
Dams	Discovery Report	USACE, National Inventory of Dams, Flood Insurance Rate Map (FIRM) Database, ODNR Dam Safety Program	May 2012	Countywide
Declared Disasters	Discovery Report	FEMA's "Disaster Declarations Summary"	June 2012	Nationwide
Demographics, Industry	Discovery Report	U.S. Census Bureau, Local Mitigation Plans	May 2012	Countywide

## Summary of Data Analysis

<b>Data Types</b>	<b>Deliverable/Product</b>	<b>Source</b>	<b>Date of Data Collection</b>	<b>Resolution</b>
Effective & Preliminary Floodplains	Discovery Map	FEMA Map Service Center and Mapping Information Platform	May 2012	Countywide
Flood Insurance Policies	Discovery Report	FEMA CIS	May 2012	Nationwide
Hazards Mitigation Plans and Status	Discovery Report	Local Mitigation Plans, Ohio Emergency Management Agency	May 2012	Countywide
Hazard Mitigation Assistance Program Grants Received	Discovery Report	FEMA's "Hazard Mitigation Program Summary," Community Input	May 2012	Nationwide
Hazard Mitigation Projects	Discovery Report	ODNR, Local Mitigation Plans	May 2012	Countywide
Historical Flooding	Discovery Report	Effective Flood Insurance Study (FIS), Local Mitigation Plans	May 2012	Countywide
Historical Storm Events	Discovery Report	Effective FIS, Local Mitigation Plans	May 2012	Countywide
Individual/Public Assistance	Discovery Report	FEMA's "Public Assistance Subgrantee Summary"	May 2012	Nationwide
Letters of Map Change	Discovery Report	FEMA's Mapping Information Platform	June 2012	Countywide
Meteorological Gages	Discovery Map	National Oceanic and Atmospheric Administration (NOAA) Great Lakes Environmental Research Laboratory	June 2012	Region-wide
Mid-term Levee Inventory	Discovery Report	MLI database	Nov. 2011*	Nationwide
Oblique Aerial Imagery	Discovery Report	USACE	July 2012	Region-wide
Ordinances	Discovery Report	Local Community Web sites, ODNR	June 2012	Countywide
Repetitive Loss	Discovery Report	FEMA CIS	May 2012	Countywide
Shoreline Classification	Discovery Map	USACE	July 2012	Countywide
Stream Gages	Discovery Map	United States Geological Survey	June 2012	Countywide
Water Level Gages	Discovery Map	NOAA, Canadian Department of Fisheries and Oceans	June 2012	Region-wide
Wave Gages	Discovery Map	NOAA	June 2012	Region-wide

\* Date of Data Release

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

During the Discovery process, a database of available flood hazard and flood risk assessment data was created. 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 provide a general understanding 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 using 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 Ashtabula and Lake Counties were obtained from the report called “FEMA Hazus AAL Usability Analysis” dated April 13, 2011 (FEMA 2011b) 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 Ashtabula and Lake Counties, OH**

FIPS Code	County	Total (in \$ K)	Building (in \$ K)	Content (in \$ K)
39007	Ashtabula	6,870	2,803	3,924
39085	Lake	22,490	9,706	11,967

Source: FEMA 2011

FIPS = Federal Information Processing Standards

#### 3.1.2 Bathymetry

Bathymetric data are available from 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

The Division of Geological Survey and the Office of Coastal Management of the Ohio Department of Natural Resources (ODNR) mapped the Lake Erie coast to identify coastal erosion areas since 1988. In 2010, the latest Coastal Erosion Area Maps were released. The extent of coastal recession between 1990 and 2004 was determined using mathematical

calculations, aerial photographs, site visits, and extensive quality and consistency reviews. Coastal recession rates for the next 30 years were estimated based on the current recession rates, assuming no measures are taken to address the issues. Areas projected to erode beyond a certain threshold amount are designated as coastal erosion areas and are identified on coastal erosion maps.

Coastal erosion maps can be found at the local ODNR offices or viewed online at <http://www.dnr.state.oh.us/tabid/22499/Default.aspx> (ODNR 2010).

A Coastal Erosion Area Permit is required to build within a coastal erosion area if (1) the property is immediately adjacent to Lake Erie and (2) the owner wishes to build a new structure or add 500 or more square feet (as measured at ground level) to an existing structure that is within a coastal erosion area. This applies to residential, commercial, industrial, institutional, and agricultural buildings and septic systems. The permit process ensures that construction in areas susceptible to coastal erosion include provisions to protect coastal bluffs and control erosion rates.

### 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 data 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 in Ashtabula or Lake Counties.

### 3.1.5 Jurisdictional Boundaries

Jurisdictional boundaries were obtained from the Ashtabula County (and Incorporated Areas) FIRM database dated December 18, 2007 (FEMA 2007) and from the Lake County (and Incorporated Areas) FIRM database dated February 3, 2010 (FEMA 2010).

### 3.1.6 Publicly Owned Land

There are several State parks within Ashtabula and Lake Counties. Geneva State Park is located in Ashtabula County, and Headlands Beach State Park is located in Lake County.

Public shoreline access points, beaches, parks, etc., along Lake Erie can be found at Ohio's Lake Erie Public Access Guidebook Web site at <http://www.ohiodnr.com/tabid/21033/Default.aspx> (ODNR 2012b).

### 3.1.7 Shoreline Information

Ashtabula County has approximately 35 miles of shoreline along Lake Erie, and Lake County has approximately 33 miles.

The shoreline classification information was obtained from USACE Detroit District (USACE 2012a). It summarizes the shoreline types, lands use, shoreline coverage, and vegetation types along the shoreline, as shown in Tables 3 through 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)
Ashtabula	35.2	22.3	-	1.2	10.8	0.9
Lake	32.9	20.3	-	4.8	7.8	-

Source: USACE 2012a, 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)	Other (miles)
Ashtabula	35.2	4.2	1.2	11.5	3.0	1.8	-	4.2	9.3
Lake	32.9	9.6	-	4.8	12.6	5.3	-	0.6	-

Source: USACE 2012a, Lake Erie Shoreline Classification

**Table 5: Summary of Shoreline Coverage**

County	Total Shoreline (miles)	Shoreline by Coverage						
		Bluff (2'-10') (miles)	Coastal Wetland (miles)	Dune (2'-10') (miles)	Flat Coast (miles)	High Bluff (>10') (miles)	High Dune (>10') (miles)	Other (miles)
Ashtabula	35.2	3.6	-	-	16.3	15.3	-	-
Lake	32.9	13.2	-	1.2	14.9	3.6	-	-

Source: USACE 2012a, 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)	Other (miles)
Ashtabula	35.2	11.1	4.8	-	4.3	8.4	6.6	-

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Lake	32.9	10.2	16.8	1.8	4.1	-	-	-
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Source: USACE 2012a, Lake Erie Shoreline Classification

### 3.1.8 Stream Lines/Hydrographs

Stream lines were obtained from the Ashtabula County (and Incorporated Areas) FIRM database dated December 18, 2007 (FEMA 2007) and from the Lake County (and Incorporated Areas) FIRM database dated February 3, 2010 (FEMA 2010).

### 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 features were obtained from the Ashtabula County (and Incorporated Areas) FIRM database dated December 18, 2007 (FEMA 2007) and from the Lake County (and Incorporated Areas) FIRM database dated February 3, 2010 (FEMA 2010).

### 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/>).

Ashtabula County is within six HUC8 watersheds: Ashtabula-Chagrin (04110003), Grand (04110004), Chautauqua-Conneaut (04120101), Lake Erie (04120200), Shenango (05030102), and Mahoning (05030103).

Lake County is within three HUC8 watersheds: Ashtabula-Chagrin (04110003), Grand (04110004), and Lake Erie (04120200).

## 3.2 OTHER DATA AND INFORMATION

Ashtabula County is located on the southern shore of Lake Erie in the northeastern corner of Ohio. It is bounded to the north by Lake Erie, on the east by Erie County, Pennsylvania, on the south by Trumbull County, and on the west by Lake and Geauga Counties (see Discovery Maps in Attachment C).

The general topography of the area is flat in the Lake Erie plain to rolling in the Appalachian plateau area. The lake plain area is approximately 4 to 6 miles wide. The most significant topographic features in this area are two ridges formed by beach lines of the ancient Lake Erie.



Soils in this area are poorly sorted silts and sands that were deposited during the retreat of the last ice age glacier with large deposits of sand on the beach ridges. A southern limit of this area is formed by a lake escarpment moraine that separates the lake plain from the glaciated Appalachian Plateau to the south.

The City of Ashtabula lies in the north-central portion of Ashtabula County. The topology of the community is level or gently undulating with steeper slopes along the Ashtabula River and along Lake Erie.

The City of Conneaut is located on the south shore of Lake Erie in the northeast corner of Ashtabula County. Conneaut is bounded on the north by Lake Erie, on the east by the Township of Springfield, and Erie County, Pennsylvania, on the south by the Township of Monroe, and on the west by the Village of North Kingsville and the Township of Kingsville.

The Village of Geneva-on-the-Lake is located on the south shore of Lake Erie in the northwestern portion of Ashtabula County.

The Village of North Kingsville is located in the northeast portion of Ashtabula County on the south shore of Lake Erie shoreline. It is bordered by Lake Erie on the north, the City of Conneaut on the east, and the unincorporated areas of Ashtabula County to the west and south.

Lake County is located on the southern shore of Lake Erie in northeastern Ohio, east of Cleveland, Ohio. Lake County is bounded on the north by Lake Erie, on the east by Ashtabula County, on the south by Geauga County, and on the southwest by Cuyahoga County. Lake County has approximately 31 miles of shoreline on Lake Erie and attracts industry through its access to the St. Lawrence International Seaway and Hopkins International Airport (in Cleveland) (see Discovery Maps in Attachment C).

The northern portion of Lake County is a lake plain approximately 4 to 6 miles wide. The most significant topographic features in this area are two ridges formed by beach lines of the ancient Lake Erie. Soils in this area are poorly sorted silts and sands which were deposited during the retreat of the last ice age glacier with large deposits of sand on the beach ridges. A southern limit of this area is formed by a lake escarpment moraine that separates the lake plain from the glaciated Appalachian Plateau to the south.

The City of Eastlake lies in the northwestern portion of Lake County. Eastlake is bordered on the north by Lake Erie, on the west by the Town of Willowick, and on the east and south by the Town of Willoughby. Drainage in the community is northwest to Lake Erie via the Chagrin River and its tributaries.

The Village of Fairport Harbor is located on the south shore of Lake Erie in the north-central portion of Lake County. Fairport Harbor is bounded on the north by Lake Erie, on the east by Painesville and the Township of Painesville, on the south by the Township of Painesville, and on the west by Village of Grand River and the Township of Painesville. Fairport Harbor consists primarily of residential development with industry engaged in the shipping of bulk cargo along the Grand River. The Grand River flows north along the southern and western edges of the community.

The Village of Grand River is located on the west bank of the Grand River in the north-central portion of Lake County is bounded on the north by Grand River and the unincorporated areas of Lake County, on the east by the Grand River and the Village of Fairport Harbor, on the south by



the Township of Painesville, and on the west by the City of Mentor. The soil conditions in Grand River are generally sand and silt underlying silt and clay in a gently rolling terrain. The pattern of drainage is east to west. The primary land use is residential with some industry engaged in shipping and boating along the Grand River.

The City of Mentor is located along the south shore of Lake Erie in the North Central portion of Lake County. Mentor is bounded on the west by unincorporated areas of Lake County, Grand River Village, and Painesville City. Mentor is bounded on the south by Kirtland Hills Village, the City of Kirtland and the City of Willoughby. Mentor is bounded on the west by the City of Willoughby. The City of Mentor-on-the-Lake borders the northeast corner of Mentor.

The Village of Lakeline is located in western Lake County, Ohio along the shoreline of Lake Erie. It is bordered on the south and west by the City of Eastlake, on the northeast by the Village of Timberlake, and on the northwest by Lake Erie.

The City of Mentor-on-the-Lake is located approximately 22 miles east of Cleveland on the southern shore of Lake Erie. It is bounded by the City of Willoughby on the west. Mentor-on-the-Lake is 1.4 square miles in area and has 2.4 miles of Lake Erie shoreline.

The Village of North Perry is located in the north-central portion of Lake County, Ohio and is bounded on the north by North Perry and Lake Erie, on the east by the Township of Madison, and on the south and west by the Township of Perry. The topography varies from flat to gently rolling. The soils in North Perry are sands and silts underlain by silt and clay. Church Creek is located in the northeast portion of North Perry and flows west through the village.

The Village of Timberlake is located in western Lake County, Ohio along the shore of Lake Erie. It is bordered by the City of Eastlake to the south, west, and north, the Village of Lakeline to the southwest, and Lake Erie to the northwest.

The City of Willoughby is located in the northern portion of Lake County, Ohio. Willoughby has an approximate area of 10 square miles and about 1.4 square miles of Lake Erie shoreline. Willoughby is bounded by the Cities of Eastlake, Wickliffe, Willoughby Hills, Kirtland, Mentor, and Mentor-on-the-Lake, and the Village of Waite Hill. Flowing in a northerly direction, the Chagrin River is the primary waterway through the city. The East Branch Chagrin River forms the corporate boundary between the southeastern portions of Willoughby and the Village of Waite Hill.

The City of Willowick is located in the northwest corner of Lake County, Ohio. It is bounded by the Cities of Euclid, Wickliffe, Willoughby, and Eastlake. The northern two-thirds of Willowick are characterized by Conneaut Silt Loam soils. Soils of this type generally have a shallow depth of bedrock and seasonally high ground water. They are also described as being poorly drained. The southern one-third of the city falls into the Allis Silt Loam soils which are very similar to the Conneaut Silt Loam soils. The area also has a seasonally high water table and is poorly drained. Willowick has about 2 miles of Lake Erie shoreline, which are characterized by a high bank or bluff. Willowick's total land area is 2.6 square miles.

### 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 Resources 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. To varying degrees, they enclose and thereby protect other features, such as estuaries, salt marshes, and the mainland, from direct wave influence by the open ocean.

The CBRS boundaries were downloaded from the 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)). Ashtabula County has no CBRS. Lake County has CBRS near Mentor Marsh and Arcola Creek near Driftwood. 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 shoreline stability control, provide flood protection, protect coastal communities, roadways and bridges, etc. Coastal structures include seawalls, groins, bulkheads, revetments, dikes, levees, breakwaters, jetties, and piers. The coastal structure data were provided through USACE Buffalo District in July 2012.

The USACE coastal structures in Ashtabula and Lake Counties are listed below.

#### ***Ashtabula County***

- Ashtabula Harbor Inner Breakwater, OH
- Ashtabula Harbor East Breakwater, OH
- Ashtabula Harbor West Breakwater, OH
- Conneaut Harbor East Breakwater Extension, OH
- Conneaut Harbor East Breakwater, OH
- Conneaut Harbor East Pier, OH
- Conneaut Harbor East Pier, OH
- Geneva-on-the-Lake Gabion Breakwater (Experimental), OH
- Geneva-on-the-Lake Sta-pod Breakwater (Experimental), OH
- Geneva-on-the-Lake East Breakwater, OH
- Geneva-on-the-Lake East Stone Revetment, OH
- Geneva-on-the-Lake West Breakwater, OH
- Geneva-on-the-Lake West Stone Revetment, OH
- Lakeshore Park East Breakwater, OH
- Lakeshore Park East Groin, OH

- Lakeshore Park Middle Breakwater, OH
- Lakeshore Park West Breakwater, OH
- Lakeshore Park West Groin, OH

### **Lake County**

- Fairport Harbor East Pier, OH
- Fairport Harbor East Breakwater, OH
- Fairport Harbor West Breakwater, OH
- Fairport Harbor West Pier, OH

During a review of the USACE oblique imagery, an additional 750 coastal structures along the Lake Erie U.S. shoreline 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 Ashtabula and Lake Counties are shown on the Discovery Maps.

### **3.2.3 Community Assistance Visit**

Statewide Community Assistance Visits (CAVs) are part of the evaluation and review process used by FEMA and local officials 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 within 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 FEMA Community Information System (CIS) (<https://portal.fema.gov/famsVuWeb/home>) on October 4, 2012.

The history of CAV activity in Ashtabula and Lake Counties is summarized in Table 7. The information provided in this table includes both open CAVs and those that have already been addressed. The State has conducted two CAVs in coastal communities in Ashtabula County, and seven CAVs in coastal communities in Lake County.

In Ashtabula County, there are no CAV records for the Village of Geneva-on-the-Lake and the Village of North Kingsville. There are no open CAVs in Ashtabula County.

There are two open CAVs in Lake County in the Cities of Willoughby and Eastlake. There are no CAV records for the Villages of Fairport Harbor, Grand River, Lakeline, and Timberlake.

**Table 7: Summary of CAV Findings in Ashtabula and Lake Counties, OH**

County	CID	Community	CAV Date	Ordinance	Enforce-ment	Engineering	Other Problems	Biennial	Program Problems	violations	Remedial Actions	CAV closed*	Agency	
Ashtabula	390010	Ashtabula County (Unincorporated Areas)	08/16/1993	Minor	Serious	Minor	None	Y	N	N	-	10/04/2006	State	
			05/20/1998	Minor	Minor	Serious	None	N	N	N	Y	10/04/2006	State	
	390011	Ashtabula, City of	06/28/1990	No data	No data	No data	No data					No data	State	
	390012	Conneaut, City of	04/11/1996	Serious	Minor	None	None	Y	N	N	-	10/04/2006	State	
Lake	390313	Eastlake, City of	09/17/1986	No data	No data	No data	No data					No data	State	
			10/27/1993	None	Minor	None	Minor	N	N	N	-	12/27/1993	State	
			10/06/1999	Minor	Minor	Minor	None	N	Y	Y	Y	10/04/2006	State	
			03/30/2011	None	Serious	None	None	A	N	Y	Y	Still open	State	
	390771	Lake County (Unincorporated Areas)	05/25/1995	Serious	Minor	Minor	None	Y	Y	Y	N	08/08/1995	State	
	390317	Mentor, City of	04/26/1994	Serious	None	None	None	N	N	N	N	-	10/04/2006	State
			01/29/1998	None	Serious	Serious	None	N	Y	Y	N	10/04/2006	State	
			03/08/2007	Minor	None	Minor	None	N	N	N	-	04/18/2007	State	
	390318	Mentor-on-the-Lake, City of	05/01/1995	Serious	None	None	None	Y	N	N	-	01/02/1996	State	
	390742	North Perry, Village of	04/15/1994	Serious	None	None	None	N	N	N	-	10/04/2006	State	
390322	Willoughby, City of	03/12/1998	Serious	Serious	None	None	N	N	Y	N	10/05/2006	State		
		09/15/2009	No data	No data	No data	No data	-	-	-	N	Still open	State		
390324	Willowick, City of	06/13/1995	Serious	Serious	None	None	N	N	N	-	10/05/2006	State		

CID = Community Identification Number

CAV = Community Assistance Visit

\* 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 to 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> (FEMA 2012a).

No communities in Ashtabula or Lake Counties participate in the CRS program.

### 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 8 summarizes the status of the comprehensive plans in Ashtabula and Lake Counties.

**Table 8: Summary of Comprehensive Plans for Ashtabula and Lake Counties, OH**

Participating Jurisdiction	Comprehensive Plan Status	Web site
Ashtabula County	2003	<a href="http://www.co.ashtabula.oh.us/pdf/ComprehensivePlan/landplan.pdf">http://www.co.ashtabula.oh.us/pdf/ComprehensivePlan/landplan.pdf</a>
Lake County	Unknown	<a href="http://www.lakecountyohio.gov/planningcommission/Publications/ComprehensivePlans.aspx">http://www.lakecountyohio.gov/planningcommission/Publications/ComprehensivePlans.aspx</a>
Lake County – Coastal Development Plans	2005	<a href="http://www.lakecountyohio.gov/planningcommission/Publications/CoastalDevelopmentPlans.aspx">http://www.lakecountyohio.gov/planningcommission/Publications/CoastalDevelopmentPlans.aspx</a>
City of Eastlake	2009	<a href="http://planning.lakecountyohio.gov/Eastlake/">http://planning.lakecountyohio.gov/Eastlake/</a>
City of Mentor	Unknown	<a href="http://planning.lakecountyohio.gov/Mentor_plan/">http://planning.lakecountyohio.gov/Mentor_plan/</a>
City of Mentor	2009	<a href="http://cityofmentor.com/work/planning-zoning/comprehensive-plan-2009/">http://cityofmentor.com/work/planning-zoning/comprehensive-plan-2009/</a>

The Ashtabula County Comprehensive Plan, dated June 2003, was the culmination of 3 years of discussion and planning by County residents, elected officials and county planners. It represents a vision for the overall development of the county for the next 15 years and is the most significant effort in countywide comprehensive planning since 1974. The Plan will be monitored regularly, revisited every 5 years, and redone 15 years from the date of its adoption with full citizen engagement. The Ashtabula County Comprehensive Plan pertains to the unincorporated areas found in the 27 townships of Ashtabula County.

This plan is not intended to supplant in any way the township or other government’s autonomy. It is intended to provide a framework incorporated by the communities that desire to use it.

The Lake County Comprehensive Plan addresses land use, population change, natural resources, and transportation issues. It provides recommendations for the development of the county.

The 2009 City of Eastlake Comprehensive Plan identifies a vision and broadly address the elements that build a community including transportation, housing, open space and natural resources, sense of place, government services, and the impacts of new developments.

The City of Mentor 2009 Comprehensive Plan represents the continuing work of the Mentor community in carrying that planning tradition into the next decade and century of prosperous growth and wise community development and redevelopment. The work of study and analysis has culminated in City of Mentor: Vision 2020. Vision 2020 is a rewrite of the “Comprehensive Plan, Mentor, Ohio” (June 1997). This plan is not considered an amendment to the Lake County Comprehensive Plan. Regional plans from Northeast Ohio Area Coordinating Agency and Lake County Coastal Development Plan are incorporated.

The overall goal of the Lake County Coastal Development Plan is to produce a coastal perspective on a countywide shoreline and development strategy. This strategy includes enhancing grant award and public funding leverage influenced through a regional effort, encouraging land-side planning of projects within jurisdictions, and devising a logical sequence of individual coastal projects resulting in an accessible, economically viable and locally relevant Lake County coastline.

The plan is not intended to address all waterfront development in Lake County but rather to look at opportunities. The Coastal Development Plan expresses an understanding of the overall coastal environment in terms of physical conditions and land use, and provides an overall coastal development framework for addressing each of the issues and opportunities.

### **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. 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 seven 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 whether they are “Valid” or “Unverified” (FEMA 2012b). Currently all Ohio counties have undergone the CNMS classification process.

Table 9 summarizes the draft results of the validation analysis obtained from the CNMS in July 2012.

**Table 9: CNMS Status for Ashtabula and Lake Counties, OH**

County	FIPS Code	Stream Mileage			Total
		Valid	Unknown	Unverified	
Ashtabula	39007	319.11	N/A	2.91	322.02
Lake	39085	128.97	N/A	42.03	171.00

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.

The list of critical facilities for Ashtabula County was obtained from the Ashtabula County Hazard Mitigation Plan. The data are shown in Table 10.

**Table 10: Summary of Critical Facilities in Ashtabula County, OH**

Facility Type	Number
Local Utilities	17
Hospitals/Health Care	1
EMS/Fire/Police	4
Airport	4
Schools/Churches	6
Water/Wastewater	12
Government	1
Extended Care Facilities	1
Neighborhood Resource Centers	24
Airport	1

The list of critical facilities for Lake County was obtained from the Lake County Hazard Mitigation Plan. Critical facilities are listed as emergency services facilities, airports, schools, fire departments, police departments, sewage treatment plants, hospitals, and local government. In addition to the critical facilities, the Lake County Hazard Mitigation Plan lists vulnerable populations, economic assets, and historic sites. The data are shown in Table 11.



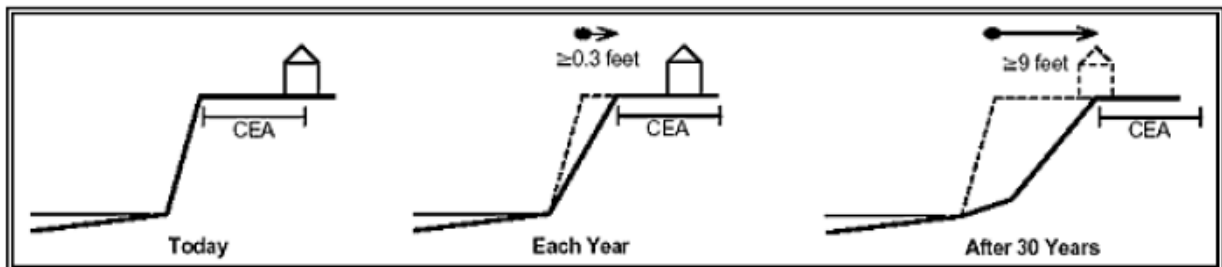
**Table 11: Summary of Critical Facilities in Lake County, OH**

Facility Type	Number
Economic Asset	4
Historic Sites	67
Utilities	4
Hospitals/Health Care	9
EMS/Fire/Police	29
Schools/Churches	66
Water/Wastewater	1
Government	16
Extended Care Facilities	14
Neighborhood Resource Centers	41
Airport	2

There is one nuclear power plant located near the Lake Erie shoreline in Lake County. The Perry Nuclear Power Plant is located in North Perry, OH.

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

Coastal Erosion Area Maps are discussed in Section 3.1.3 of this report. Figure 2 illustrates the effects of coastal erosion over a 30-year period.



*\*Source: Erie County Natural Hazards Mitigation Plan (EMH&T, 2005)*

**Figure 2: Effects of Coastal Erosion**

General erosion rates for Ashtabula and Lake Counties are shown in Table 12. The long-term recession rates cover the years 1877 to 1973 with the short-term rates representing data from 1973 to 1990 (ODNR 2011). They indicate that Lake County has greater erosion rates (both short-term and long-term) than the general shoreline in Ashtabula County.



**Table 12: Lake Erie Erosion Statistics - Ashtabula and Lake Counties, OH**

County	Long-Term Distance (feet)	Long-term Rate (feet/year)	Short-term Distance (feet)	Short-term Rate (feet/year)
Ashtabula	82	0.9	28	1.6
Lake	160	1.7	32	1.9

To address the coastal erosion issue, ODNR began the preliminary stages of erosion management plan development in the late 1990s. More recently, ODNR began development of the formal Lake Erie Shore Erosion Management Plan (LESEMP) for local communities and individual property owners to aid in the management of coastal erosion. The recommendations contained within the LESEMP will serve as a best practices reference for the management of erosion along Ohio’s coast. The LESEMP is a non-regulatory initiative and will not be used for implementation or enforcement of regulatory measures. The LESEMP is still under development with a few chapters completed. It is available at [http://www.ohiodnr.com/Coastal\\_Main\\_Menu/HelpforLandowners/ProgramsforResourceImprovement/LakeErieShoreErosionManagementPlan/LESEMP\\_Ch1\\_Introduction/tabid/23308/Default.aspx](http://www.ohiodnr.com/Coastal_Main_Menu/HelpforLandowners/ProgramsforResourceImprovement/LakeErieShoreErosionManagementPlan/LESEMP_Ch1_Introduction/tabid/23308/Default.aspx). Some erosion-related projects can be found in Section 3.2.18: Mitigation Plans Status and Mitigation Projects.

### 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 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 dam’s location, size, purpose, type, last inspection, regulatory facts, and other technical data. The information contained in the NID is updated approximately every 2 years. The NID is available at the USACE Web site: <https://nid.usace.army.mil/>.

The NID shows that there are 36 dams in Ashtabula County and 10 in Lake County (Table 13). Five of those dams in Ashtabula County and four of those dams in Lake County have Emergency Action Plans. None of these dams are within the Great Lakes Coastal Flood Study project area. The locations of the dams are shown on the Discovery Maps.

**Table 13: Summary of Dams in Ashtabula and Lake Counties, OH**

FIPS Code	County	Number of Dams within County	Number of Dams with Emergency Action Plans	Numbers of Dams within Project Area
39007	Ashtabula	36	5	0
39085	Lake	10	4	0

FIPS = Federal Information Processing Standards

The ODNR Dam Safety Program regulates the construction, operation, and maintenance of Ohio’s dams through the use of periodic inspections, permits, and regulations to protect them from damages due to failure. More information is available on the ODNR Dam Safety Web site at <http://www.dnr.state.oh.us/water/tabid/3329/Default.aspx>.

**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 not available before 1964).

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

Table 14 lists the major disaster declarations that have been declared in Ashtabula and Lake Counties.

**Table 14: Declared Disasters in Ashtabula and Lake Counties, OH**

Disaster Number	Declaration Date	Disaster Type	Incident Type	Description
<b>Ashtabula County</b>				
266	07/15/1969	DR	Tornado	Tornadoes, Severe Storms, and Flooding
345	07/19/1972	DR	Flood	Tropical Storm Agnes
377	04/27/1973	DR	Flood	Severe Storms and Flooding
3029	02/02/1977	EM	Snow	Snowstorms
3055	01/26/1978	EM	Snow	Blizzards and Snowstorms
738	06/03/1985	DR	Severe Storm(s)	Severe Storms and Tornadoes
3187	09/23/2003	EM	Power Outage	Power Outage
1556	09/19/2004	DR	Severe Storm(s)	Severe Storms and Flooding
1656	08/01/2006	DR	Flood	Severe Storms, Straight Line Winds, and Flooding
3286	04/24/2008	EM	Snow	Snowstorms
3346	06/30/2012	EM	Severe Storm(s)	Severe Storms
<b>Lake County</b>				
266	7/15/1969	DR	Tornado	Tornadoes, Severe Storms, and Flooding
345	07/19/1972	DR	Flood	Tropical Storm Agnes
362	11/24/1972	DR	Flood	Severe Storms and Flooding
377	04/27/1973	DR	Flood	Severe Storms and Flooding
480	09/11/1975	DR	Severe Storm(s)	Winds, Tornadoes, Heavy Rains, Flooding
3029	02/02/1977	EM	Snow	Snowstorms

Disaster Number	Declaration Date	Disaster Type	Incident Type	Description
3055	01/26/1978	EM	Snow	Blizzards and Snowstorms
831	06/10/1989	DR	Severe Storm(s)	Severe Storms and Flooding
3187	09/23/2003	EM	Power Outage	Power Outage
1556	09/19/2004	DR	Severe Storm(s)	Severe Storms and Flooding
1656	08/01/2006	DR	Flood	Severe Storms, Straight Line Winds, and Flooding
3286	04/24/2008	EM	Snow	Snowstorms
3346	06/30/2012	EM	Severe Storm(s)	Severe Storms

DR = Major Disaster  
EM = Emergency

### 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 gathered.

Table 15 summarizes the number of insurance policies, their premiums, the numbers and dollar amounts of paid losses, and the numbers of substantial damage in Ashtabula and Lake Counties. The data are based on CAV Community Summary Reports that were extracted from the FEMA Community Information System (<https://portal.fema.gov/famsVuWeb/home>) on December 21, 2011.

**Table 15: Summary of Flood Insurance Policies and Claims Ashtabula and Lake Counties, OH**

Community	CID	Total Number of Policies	Total Premiums (\$)	Insurance in Force (\$)	Total Number of Closed Paid Losses	\$ of Closed Paid Losses	# of Substantial Damage Closed Paid Losses
<b>Ashtabula County</b>							
Ashtabula (Unincorporated Areas)	390010	84	\$44,948	\$13,614,200	73	\$1,230,205.01	8
City of Ashtabula	390011	4	\$2,228	\$900,000	2	\$13,392.00	0
City of Conneaut	390012	8	\$4,608	\$970,000	8	\$250,276.44	5
Village of Geneva-on-the-Lake	390658	4	\$3,510	\$786,300	2	\$23,995.72	1
Village of North Kingsville	390889	0	N/A	N/A	N/A	N/A	N/A
<b>Lake County</b>							

## Summary of Data Analysis

Community	CID	Total Number of Policies	Total Premiums (\$)	Insurance in Force (\$)	Total Number of Closed Paid Losses	\$ of Closed Paid Losses	# of Substantial Damage Closed Paid Losses
City of Eastlake	390313	225	\$204,694	\$34,879,200	230	\$1,961,507.53	14
Village of Grand River	390315	2	\$2,833	\$886,800	10	\$133,683.01	2
Lake (Unincorporated Areas)	390771	146	\$90,086	\$30,038,000	83	\$1,235,936.24	3
City of Mentor	390317	107	\$80,400	\$26,062,700	25	\$263,821.27	1
City of Willoughby	390322	105	\$165,708	\$21,893,100	37	\$552,604.48	10
City of Willowick	390324	8	\$3,507	1,408,500	9	\$62,143.23	0
Village of Fairport Harbor	390314	0	N/A	N/A	N/A	N/A	N/A
City of Mentor-on-the-Lake	390318	0	N/A	N/A	N/A	N/A	N/A
Village of North Perry	390742	0	N/A	N/A	N/A	N/A	N/A
Village of Lakeline	390888	0	N/A	N/A	N/A	N/A	N/A
Village of Timberlake	390890	0	N/A	N/A	N/A	N/A	N/A

### 3.2.12 Gage Data

#### 3.2.12.1 Meteorological Stations

The National Data Buoy Center (NDBC) is part of the NOAA National Weather Service (NWS). 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 16 shows the meteorological station identification number and location for the gages in the Lake Erie Coastal Flood Study area for Ashtabula and Lake Counties. The station locations are shown on the Discovery Maps.

**Table 16: Meteorological Stations in Ashtabula and Lake Counties, OH**

Station ID	Location	Owner	Data	Years of Historical Data
FAIO1	Fairport, OH	NOAA's National Ocean Service	Water Level Meteorological Observation	2009–Present
GELO1	Geneva on the Lake, OH	NWS Eastern Region	Meteorological Observation	2007–Present
CBLO1	Conneaut Breakwater Light, OH	NWS Eastern Region	Meteorological Observation	2007–Present
HZY	Ashtabula, OH	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 17 shows the gage identification numbers and locations for the gages in Ashtabula and Lake Counties. USGS stream gage locations are also shown on the Discovery Maps.

**Table 17: Stream Gage Stations in Ashtabula and Lake Counties, OH**

County	Gage ID	Begin Date	End Date	Gage Location
Ashtabula	04210000	080/2/1942	01/21/1959	Phelps Creek near Windsor, OH
	04210100	1947	11/05/1985	Hoskins Creek at Hartsgrove, OH
	04211000	05/16/1942	02/11/1966	Rock Creek near Rock Creek, OH
	04211500	05/16/1952	05/12/1974	Mill Creek near Jefferson, OH
	04211820	06/03/1997	01/09/1988	Grand River at Harpersfield, OH
	04212500	02/09/1925	01/17/1996	Ashtabula River near Ashtabula, OH
	04212600	Feb 1966	03/31/1982	Hubbard Run tributary at Ashtabula, OH
	04213000	03/04/1923	Current	Conneaut Creek at Conneaut, OH
Lake	04209000	03/23/1913	02/28/2011	Chagrin River at Willoughby, OH
	04212000	04/06/1923	05/13/1974	Grand River near Madison, OH
	04212029	06/12/2003	02/28/2011	Bates Creek near Thompson, OH
	04212100	02/25/1975	03/12/2010	Grand River near Painesville, OH

### 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 level for scientific studies.

Table 18 shows the water level gage station ID and location for the gage in Lake County. The station location is shown on the Discovery Map.

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 18: Water Level Stations in Ashtabula and Lake Counties, OH**

Station ID	Location	Data	Year of Establishment
9063053 (FAIO1)	Fairport, OH	Primary Water Level Meteorological Observation	1975

In addition, six gages are located along the Canadian shoreline of Lake Erie (Table 19). They are maintained by the Canadian Department of Fisheries and Oceans (DFO), Marine Environmental Data Service. 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 19: 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 is 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 20 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 20: 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 Meteorological Observation	1980– Present
45132	Port Stanley	Environment Canada	Wave Height Meteorological Observation	1989– Present
45142	Port Colborne	Environment Canada	Wave Height 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 at the Discovery Meeting; however, they did not have any data to provide.

### 3.2.14 Historical Flooding

In Ashtabula County, the principal flooding problem in communities bounded by Lake Erie is the high water levels of Lake Erie created by a combination of abnormal still-water levels compounded by wind setup and wave action from north and northeast storms. The county is located in a “snow belt” area on the south shore of Lake Erie where snowmelt is a significant factor in flooding. Flooding in the City of Ashtabula is occasionally compounded by ice jams created during the annual spring breakup, but the principle flooding problem is high water levels from Lake Erie compounded by wave action from north and northwest storms.

As with the City of Ashtabula, the City of Conneaut is affected by flooding along the coast of Lake Erie. However, due to the high bluff along much of the community and the location of the breakwall, damage has been kept to a minimum.

The Village of Geneva-on-the-Lake has no major flood problems. The flooding that does occur is limited to a narrow bank along the streams and lake shore. The most severe problem found in Geneva-on-the-Lake is erosion caused by high water lake level of Lake Erie compounded by wave and ice action from winter storms.



Flooding in Lake County is generally related to rainfall accompanied by a melting of snow cover either in the early spring or during a mid-winter thaw. Violent summer storms associated with other areas of Ohio rarely cause flooding other than ponding in isolated areas. Some factors that affect flooding in the community are undersized culverts and bridges located on flood prone streams. Because this community is located in a “snow belt” area on the southern shore of Lake Erie, east of Cleveland, Ohio, snowmelt is a significant factor in flooding.

The principle flood problems in Lake County (unincorporated areas) are from high Lake Erie stages accompanied by storm induced wave action and erosion and from the overflow of the Chagrin and Grand River, compounded by ice jamming during the spring thaw.

In Eastlake, the principle flood damages occur in the downstream reaches of the Chagrin River near Lake Erie where past development in floodplain areas was unregulated. The situation is often aggravated by ice jams. On January 28–29, 1968, ice jam flooding occurred upstream of the Route 283 Bridge, including Woodland Boulevard, Riverside Boulevard, Highland Drive, Clarion Drive, Carlton Drive, Shadyside Drive, Admiral Drive, and West Island Drive. This flooding was considered to be the worst since the January 1959 flood when damages due to ice jam flooding reached \$260,000 (May 1968 price levels) at Eastlake. Ice jam flooding to various degrees is an almost annual occurrence which often results in dynamiting efforts by local residents. Floods uncomplicated by ice are not the norm and do not accurately describe the flooding situation at Eastlake.

Communities along the Lake Erie shoreline affected by high water levels accompanied by storm induced wave action and erosion include the cities of Eastlake, Mentor (along Mentor Marsh), Mentor-on-the-Lake (near the Mentor Lagoons), Willoughby, and the Village of North Perry and Lake County Unincorporated areas. The most severe wave action occurs from north or northeast storms.

The water levels on the Great Lakes can vary from year to year and from month to month. Local water levels can vary from day to day and from hour to hour. Seasonal variations usually consist of high levels in the summer and low levels in late winter with the highest and lowest monthly means usually occurring during June and February, respectively. Yearly and seasonal fluctuations are caused by variations in precipitation within the Great Lakes basin. Continuous records of the levels of Lake Erie have been maintained at Cleveland by the Lake Survey Center since 1860. Between 1860 and 1976, the maximum instantaneous level, an elevation of 576.08 feet (National Geodetic Vertical Datum of 1929), occurred on June 16, 1973. This event approximated the 1-percent-annual-chance (100-year) flood event.

### 3.2.15 Land Use

Table 21 lists the latest land use data for Ashtabula and Lake Counties, OH.



**Table 21: Summary of Land Use in Ashtabula and Lake Counties, OH**

	Area (Sq Mi)	Urban	Cropland	Pasture	Forest	Open Water	Wetlands	Bare/Mines
Ashtabula	702.7	6.86%	31.59%	4.30%	38.54%	1.68%	17.00%	0.02%
Lake	228.2	32.16%	13.71%	10.16%	48.57%	1.77%	3.31%	0.02%

Source: Ohio Department of Development, 2011

According to the Ohio Department of Development (2011), the major land covers in Ashtabula County are forest and cropland, which cover more than 65 percent of the land in the county.

In Lake County, the two major land covers are forest and urban. Forest covers more than 48 percent of the county land.

The service industry represents the largest segment of jobs with slightly over 23 percent in trade, transportation, and utilities. This is closely followed by manufacturing at nearly 23 percent, education and health service, and leisure and hospitality, are ranked third and fourth.

### 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 report indicates that 23 of 88 levees in Ohio counties have been inventoried.

The MLI Levee database shows no levees identified within the study area.

### 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. It includes completed cases of Letters of Map Amendment (LOMAs) and Letters of Map Revision (LOMRs), including LOMRs based on fill (LOMR-Fs), and conditional LOMRs. No Conditional LOMAs or Conditional LOMR-F-s were included.

The list of LOMC cases within the study area were obtained from FEMA Mapping Information Platform Web site (<https://hazards.fema.gov/femaportal/wps/portal>) on June 26, 2012. Table 22 shows the LOMC data.

**Table 22: Summary of LOMC Cases in Ashtabula and Lake Counties, OH**

County	Number of Letters of Map Amendment	Number of Letters of Map Revision	Number of Letters of Map Amendment within Project Area
Ashtabula County	44	2	2
Lake County	156	21	8

### 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 bringing together diverse stakeholders in the jurisdiction(s) to provide an array of input into the plan,
- A risk assessment to identify the 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, and
- An adoption requirement to ensure the support from participating jurisdictions.

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

The status of current hazard mitigation plans is shown in Table 23. The data were obtained from FEMA’s Plan Approval Status Report based on regional reports for the end of May 24, 2012 (FEMA 2012d), as well as at the Ohio Emergency Management Agency Mitigation Planning Web site (<http://ohiosharpp.ema.state.oh.us/ohiosharpp/Planning.aspx#lhmp>). Ashtabula County is currently updating its plan.

**Table 23: Status of Hazard Mitigation Plans**

Participating Jurisdiction	Approval Date	Expiration Date	Second Approval Date	Link
Ashtabula	03/05/2007	07/03/2012	underway	<a href="http://www.co.ashtabula.oh.us/pdf/ema/hmp.pdf">http://www.co.ashtabula.oh.us/pdf/ema/hmp.pdf</a>
Lake	05/16/2011	12/23/2015	N/A	<a href="http://ohiosharpp.ema.state.oh.us/sharpp/local/Lake%20County/plans/125/section/Lake%202010%20HMP%201.pdf">http://ohiosharpp.ema.state.oh.us/sharpp/local/Lake%20County/plans/125/section/Lake%202010%20HMP%201.pdf</a>

Ashtabula County has received \$70,475 in Ohio Coastal Management Program Grants. This has allowed for projects totaling \$132,150. Lake County has received \$1,870,771 in Ohio Coastal Management Program Grants. This has allowed for projects totaling \$2,782,388. The total grant and project amounts do not include those funded through Ohio’s Coastal and Estuarine Land Conservation Program which is also administered by the Office of Coastal Management.

#### 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 24. The locations of the mitigated properties are shown on the Discovery Maps.

**Table 24: Hazard Mitigation Grant Projects**

<b>Jurisdiction</b>	<b>Project Description</b>
City of Painesville	The acquisition and demolition of 38 residential townhouse structures located within the floodplain, adjacent to Grand River that empties into Lake Erie.
City of Painesville	The acquisition and demolition of 18 residential condominiums located within the floodplain, adjacent to Grand River that empties into Lake Erie.

**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 Ashtabula County, there were 37 Public Assistance projects with a total of \$1,580,086.62 of Federal share obligations.

In Lake County, there were 82 Public Assistance projects with a total of \$6,014,064.75 of Federal share obligations.

**3.2.18.3 Ohio Coastal Management Assistance Grants**

To preserve, protect, and enhance Ohio’s Lake Erie coastal resources, Ohio Coastal Management Program (OCMP) has provided grants help since 1998. More than \$3.5 million has been awarded since then to local communities through OCMP from NOAA. The grants are awarded on a competitive basis, with applicants providing a minimum of 50 percent of the project costs. This is a reimbursement grant program whereby the project sponsor is expected to make the initial outlays for the project and then request reimbursement.

The past grant projects are available at ODNR Office of Coastal Management Web site ([http://ohiodnr.com/coastal/LakeErie/Grants\\_CMAG/tabid/9337/Default.aspx](http://ohiodnr.com/coastal/LakeErie/Grants_CMAG/tabid/9337/Default.aspx)) and summarized in Table 25.

**3.2.18.4 Great Lakes Coastal Restoration Grants**

Great Lakes Coastal Restoration Grants were part of a one-time \$30 million Congressional appropriation to the Great Lakes States. Ohio's portion of the funds was awarded in 2001 and a portion re-appropriated in 2003.

Seventeen projects were funded with Ohio’s portion of the Federal grants. Ohio’s funding priorities were protection of critical coastal areas, water quality protection and coastal restoration, and sustainable development initiatives. Selected projects were consistent with OCMP priorities and helped implement the goals of the Lake Erie Protection and Restoration Plan. The recipient's share of total project costs was 20 percent.

The funds were provided by NOAA and administered by the ODNR Office of Coastal Management. Proposals funded under this program were consistent with OCMP.

The grant projects are available at ODNR Office of Coastal Management Web site ([http://ohiodnr.com/LakeErie/Grants\\_GLCRGs/tabid/9344/Default.aspx](http://ohiodnr.com/LakeErie/Grants_GLCRGs/tabid/9344/Default.aspx)) and summarized in Table 25.

## Summary of Data Analysis

**Table 25: Mitigation Projects in Ashtabula and Lake Counties (through OCMP Grants)**

Award Year	Grantee	Project Title	Grant Type	Grant Amount	Total Project Cost
2011	Conneaut Port Authority	Conneaut Port Authority Access	Lake Erie Clean Up Grant	\$3,923	\$7,8467
2011	Ashtabula County Board of Commissioners/Port Authority	Ashtabula County Coastal Development Plan	CMAG <sup>1</sup>	\$50,561	\$101,122
2007	City of Geneva	City of Geneva Comprehensive Plan	CMAG	\$21,250	\$42,500
2006	Township of Saybrook	Saybrook Township Comprehensive Plan	CMAG	\$18,825	\$37,650
1999	City of Ashtabula	Walnut Beach Nature Trail	GLCRG <sup>2</sup>	\$15,000	\$30,000
1998	City of Ashtabula	Walnut Beach Boardwalk	CMAG	\$15,400	\$22,000
<b>Total Coastal Grants To Ashtabula County</b>				<b>\$70,475</b>	<b>\$132,150</b>
2011	City of Mentor	Mentor Beach Park, Mentor Lagoons Nature Preserve and Marina, and Headlands Beach State Park	Lake Erie Clean Up Grant	\$1,454	\$4,894
2011	City of Mentor	Mentor Beach Park and Mentor Lagoons Nature Preserve beach area	Lake Erie Clean Up Grant	\$1,760	\$5,200
2011	City of Eastlake	City of Eastlake Access Sites Clean Up	Lake Erie Clean Up Grant	\$1,017	\$4,202
2010	City of Willoughby	Osborne Park / Sunset Park Coastal Recreational Analysis	CMAG	\$5,000	\$10,500
2009	Lake Soil and Water Conservation District	Lakeshore Landowners Guide to Lakeside Living	CMAG	\$5,500	\$13,764
2009	Lake County Port Authority	Bill Stanton Park Master Plan	CMAG	\$10,000	\$21,700
2008	City of Eastlake Port Authority	Chagrin River's Anchor Island Protection Project	CMAG	\$110,000	\$220,000
2007	City of Willowick	City of Willowick CMAG Public Access Acquisition	CMAG	\$60,612	\$60,612
2005	Chagrin River Watershed Partners, Inc.	Riparian Corridor Connectivity Analysis and Urban Sewersheds	309 <sup>3</sup>	\$76,307	\$76,307
2004	Chagrin River Watershed Partners, Inc.	Evaluating the Effectiveness of Riparian and Wetland Setback Zoning	309	\$40,000	\$40,000
2004	Chagrin River Watershed Partners, Inc.	Updating Parking Requirements to Minimize Impervious Cover	309	\$20,000	\$20,000
2004	Chagrin River Watershed Partners, Inc.	Alternative Sewage Treatment Systems & Conservation Design in Unsewered Areas	309	\$15,000	\$15,000
2004	Lake County Planning Commission	Lake County Coastal Priority Projects Feasibility Study	CMAG	\$17,000	\$46,000

## Summary of Data Analysis

Award Year	Grantee	Project Title	Grant Type	Grant Amount	Total Project Cost
2004	Lake Metroparks	Grand River Indian Point Acquisition	GLCRG	\$68,720	\$85,900
2004	The Ohio State University Research Foundation	Hydrological Investigations at Mentor Marsh	309	\$50,000	\$50,000
2003	Chagrin River Watershed Partners, Inc.	Chagrin River Watershed Mitigation Site Identification	306 <sup>4</sup>	\$10,000	\$20,000
2003	Chagrin River Watershed Partners, Inc.	Site Planning Forum	309	\$10,000	\$20,000
2003	Chagrin River Watershed Partners, Inc.	Sub-watershed Impervious Cover Analysis	309	\$26,000	\$26,000
2003	Chagrin River Watershed Partners, Inc.	Chagrin River Watershed Landowner Guide	309	\$10,000	\$10,000
2003	Davey Resource Group	Mentor Area Special Management Plan	309	\$70,000	\$70,000
2003	Lake County Planning Commission	Western Lake County Coastal Comprehensive Plan	CMAG	\$61,567	\$123,134
2002	Chagrin River Watershed Partners, Inc.	Mitigation Site Identification	309	\$30,000	\$18,000
2002	Chagrin River Watershed Partners, Inc.	Cumulative Impacts of Land Use Changes on Headwater Streams	309	\$36,000	\$36,000
2002	City of Mentor-on-the-Lake	Overlook Beach Park Stairway	CMAG	\$52,500	\$102,000
2002	Davey Resource Group	Mentor Area Special Management Plan	309	\$70,000	\$70,000
2002	Lake Metroparks	Steelhead Run Nature Preserve	CMAG	\$49,900	\$101,100
2002	Chagrin River Watershed Partners, Inc.	Sub-watershed Impervious Cover Analysis	306	\$9,589	\$9,589
2001	Chagrin River Watershed Partners, Inc.	Cumulative and Secondary Impacts	309	\$44,000	\$44,000
2001	City of Eastlake	City of Eastlake Ward Creek Riparian Corridor Acquisition and Preservation Project	GLCRG	\$368,520	\$608,356
2001	Davey Resource Group	Mentor Area Special Management Plan	309	\$60,000	\$60,000
2001	Lake County Planning Commission	Eastern Lake County Coastal Comprehensive Plan	CMAG	\$45,000	\$92,142
2001	Lake Metroparks	Lower Grand River Floodplain Acquisition	GLCRG	\$125,920	\$157,400

## Summary of Data Analysis

Award Year	Grantee	Project Title	Grant Type	Grant Amount	Total Project Cost
2000	Chagrin River Watershed Partners, Inc.	Cumulative and Secondary Impacts	309	*	*
2000	Davey Resource Group	Mentor Area Special Area Management Plan	309	\$16,000	\$16,000
2000	ODNR Division of Soil and Water Conservation to Lake County SWCD	Arcola Creek Watershed Plan	309	\$50,000	\$50,000
2000	The Ohio State University	A Comprehensive GIS For Mentor Marsh And Its Watershed	CMAG	\$12,500	\$25,000
1999	City of Mentor	Mentor Beach Park Shoreline Access	CMAG	\$25,200	\$50,400
1999	Davey Resource Group	Special Area Management Planning	309	\$35,000	\$35,000
1999	ODNR Division of Soil and Water Conservation to Lake County SWCD	Arcola Creek Watershed Plan Development	309	\$49,000	\$49,000
1998	Lake Metroparks	Lake Metroparks Lakefront Protection Study	CMAG	\$36,750	\$52,500
<b>Total Coastal Grants To Lake County</b>				<b>\$1,865,771</b>	<b>\$2,771,888</b>

<sup>1</sup>CMAG: Coastal Management Assistance Grants

<sup>2</sup>GLCRG: Great Lakes Coastal Restoration Grants

<sup>3</sup>306: Section 306 Funds

<sup>4</sup>309: Section 309 Funds

\*: Data not available

### 3.2.19 Oblique Imagery

The USACE collected oblique imagery for the entire Great Lakes coastline in 2012. Oblique imagery is captured at angle, as compared to an overhead view provided by orthophotos, and allows users a 3-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 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 (SFHA) 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.

The NFIP floodplain ordinance levels are described in Title 44 of the Code of Federal Regulations, Section 60.3(a)–(e) 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 26.

**Table 26: Floodplain Ordinance Levels**

Ordinance Level	Description
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 Ashtabula and Lake Counties is shown in Table 27.

**Table 27: Program Status and Ordinance Level for Ashtabula and Lake Counties, OH**

County	Community	CID	Program Status	Ordinance Level
Ashtabula County	Ashtabula County (Unincorporated Areas)	390010	Participating	D
	Ashtabula, City of	390011	Participating	D
	Conneaut, City of	390012	Participating	D
	Geneva-on-the-Lake, Village of	390658	Participating	D
	North Kingsville, Village of	390889	Participating	D
Lake County	Lake County (Unincorporated Areas)	390313	Participating	D
	Eastlake, City of	390314	Participating	D
	Fairport Harbor, Village of	390315	Participating	D
	Grand River, Village of	390771	Participating	D
	Lakeline, Village of	390888	Participating	D
	Mentor, City of	390317	Participating	D
	Mentor-on-the-Lake, City of	390318	Participating	D
	North Perry, Village of	390742	Participating	D
	Timberlake, Village of	390890	Participating	D
	Willoughby, City of	390322	Participating	D
	Willowick, City of	390324	Participating	D



### 3.2.21 Regulatory Mapping

All of the communities in the study area have effective FISs. Table 28 shows the current effective FIS and FIRM dates.

**Table 28: Effective FIS Status of Ashtabula and Lake Counties, OH**

County	Community	CID	Product Types	Initial FIRM	Previous FIS	Effective FIS
Ashtabula County	Ashtabula County, (Unincorporated Areas)	390010	FIS & FIRM	01/02/1981	07/01/1980	12/18/2007
	Ashtabula, City of	390011	FIS & FIRM	02/01/1980	08/01/1979	12/18/2007
	Conneaut, City of	390012	FIS & FIRM	02/15/1980	08/15/1979	12/18/2007
	Geneva-on-the-Lake, Village of	390658	FIS & FIRM	12/04/1979	06/04/1979	12/18/2007
	North Kingsville, Village of	390889	FIS & FIRM	12/18/2007	N/A	12/18/2007
Lake County	Lake County, (Unincorporated Areas)	390771	FIS & FIRM	01/02/1981	04/05/2005	02/03/2010
	Eastlake, City of	390313	FIS & FIRM	02/18/1981	08/18/1980	02/03/2010
	Fairport Harbor, Village of	390314	FIS & FIRM	05/15/1980	11/15/1979	02/03/2010
	Grand River, Village of	390315	FIS & FIRM	07/16/1979	01/16/1979	02/03/2010
	Lakeline, Village of	390888	FIS & FIRM	02/03/2010	N/A	02/03/2010
	Mentor, City of	390317	FIS & FIRM	12/01/1977	06/01/1977	02/03/2010
	Mentor-on-the-Lake, City of	390318	FIS & FIRM	08/01/1979	02/01/1979	02/03/2010
	North Perry, Village of	390742	FIS & FIRM	07/16/1979	01/16/1979	02/03/2010
	Timberlake, Village of	390890	FIS & FIRM	02/03/2010	N/A	02/03/2010
	Willoughby, City of	390322	FIS & FIRM	02/16/1981	07/16/1980	02/03/2010
Willowick, City of	390324	FIS & FIRM	12/04/1979	06/04/1979	02/03/2010	

### 3.2.22 Repetitive Loss/Severe Repetitive Loss Properties

The data obtained from FEMA suggest that claims for repetitive losses were filed in several communities in Ashtabula and Lake Counties, as shown in Table 29.

**Table 29: Summary of Repetitive Loss Ashtabula and Lake Counties, OH**

County	CID	Community Name	No. of Rep Losses
Ashtabula	390010	Ashtabula County (Unincorporated Areas)	38
	390012	Conneaut, City of	2
Lake	390313	Eastlake, City of	101



County	CID	Community Name	No. of Rep Losses
	390314	Fairport Harbor, Village of	15
Lake	390315	Grand River, Village of	6
	390771	Lake County (Unincorporated Areas)	15
	390322	Willoughby, City of	6

### 3.2.23 Socio-Economic Analysis

Employment statistics show that the service industry represents the largest segment of jobs at over 70 percent, including trade, transportation and utilities, education and health service information, leisure and hospitality, etc.

The service industry represents the largest segment of jobs slightly over 23 percent in trade, transportation and utilities. This is closely followed by manufacturing at nearly 23 percent. Education and health service and leisure and hospitality, are ranked third and fourth for jobs.

Table 30 provides the census population data from 1990, 2000, and 2010 for Ashtabula and Lake Counties.

**Table 30: Summary of Census Population Data in Ashtabula and Lake Counties, OH**

County	1990 Population	2000 Population	2010 Population
Ashtabula	99,821	102,728	101,497
Lake	215,499	227,511	230,041

Source: US Census Bureau, 2010

Ashtabula County: According to the U.S. Census Bureau (2010), the total population of Ashtabula County was 102,728 in 2000 and 101,497 in 2010. The County is expected to keep growing over the next 30 years, with an increase to 106,420 by 2030. The median age of the population is 40.6 and 9.0 percent of the population is minority (Ohio Department of Development 2011).

The majority of land in Ashtabula County is covered by forest, followed by cropland, wetlands, and urban.

The major industry in Ashtabula County is the manufacturing industry, specifically fiberglass, plastics, and related chemical industries. The County has over 350 manufacturing and industrial firms, and 2,800 businesses employing 43,000 people.

The major employers of the County include Ashtabula Area City Schools, Ashtabula County Government, Ashtabula County Medical Center, Brown Memorial Hospital, Cascade Ohio Inc., Kennametal Inc., Masco/KraftMaid Cabinetry, Molded Fiber Glass Companies, and Premix Inc. There are 17 Fortune 500 Companies located in the County (JH Consulting, LLC 2012).

The agricultural industry provides a significant contribution to the economy in Ashtabula County. Dairy production and cattle and grain commodities are the major source of agricultural

economic strength. Vineyards, nurseries, tree farms, orchards, and other specialty agricultural production add to that strength. The unique microclimate produced by Lake Erie allows the orchard and vineyard crops to retain a long growing season. This specialty agricultural production has benefited the local economy through increased tourism for festivals and special events held at wineries and farm markets.

The tourism industry is growing in Ashtabula County. The Cities of Conneaut and Geneva and the village of Geneva-on-the-Lake are popular tourist destinations during the summer months (EMH&T 2007).

Lake County: According to the U.S. Census Bureau (2010), the total population of Lake County was 227,511 in 2000 and 230,041 in 2010. The County is expected to keep growing over the next 30 years, with an increase to 232,350 by 2030. The median age of the population is 41.9 and 8.5 percent of the population is minority (Ohio Department of Development 2011).

The majority of land in Ashtabula County is covered by forest, followed by urban, cropland, and wetlands.

The majority of the employment sector in 2000 comprised manufacturing, trade, and service. Organizations such as the Lake County Economic Development Center and Community Improvement Corporation of Lake County are working to attract business to and retain business in Lake County. The major employers in the county include ABB Automation, Avery Dennison Corporation, Lake County Government, Lake Hospital System, Lubrizol Corporation, Mentor Exempted Village Board of Education, Cleveland Clinic Health System, STERIS Corporation, and Willoughby-Eastlake City Board of Education (JH Consulting, LLC 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.

Ashtabula County, OH, has 32 draft transects for 35 miles of shoreline along Lake Erie. Lake County, OH, has 30 draft transects for 33 miles of shoreline along Lake Erie. The draft transect layout is shown on the Discovery Maps.

### 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 Ashtabula and Lake Counties was held on July 19, 2012, in Mentor, OH. Communities affected by coastal flooding in Ashtabula and Lake Counties were invited to the Discovery meeting and a total of 19 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 site here: <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 Study 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. The National Flood Insurance Program (NFIP) reduces flood risk to existing and future structures and their occupants, and is the foundation of most communities' flood mitigation efforts.

Examples of mitigation activities include:

- Updating existing 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 Ashtabula and Lake Counties are described in Section 3.2.18.

As this Lake Erie coastal project moves forward, continued discussion regarding FEMA partnership 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. Ashtabula and Lake Counties each have one open CAV. Open CAVs can be an indicator of unresolved floodplain management issues. Another indicator of compliance issues can be the floodplain management ordinances for the communities. 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 the need 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, factsheets, and additional information. Social media sites such as Twitter and Facebook are also being utilized for the Great Lakes Coastal Flood Study.

### 5.5 UNMET NEEDS

During the Discovery Meetings, Lake Erie stakeholders had questions about the process of proceeding with a new coastal flood risk study. There are currently no Zone V areas mapped along the Lake Erie shoreline, and there were some concerns over the adoption of new coastal flood maps and having to update zoning ordinances. Stakeholder questions were addressed at the meeting and will continue to be addressed throughout the study. 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

## SECTION EIGHT REFERENCES

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# **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
Ashtabula County	<a href="http://www.co.ashtabula.oh.us/web/framesets/ElecOfils.html">http://www.co.ashtabula.oh.us/web/framesets/ElecOfils.html</a>	Dave Smith	Chief Building Official	25 West Jefferson Street	Jefferson, OH 44047	(440) 576-3737	n/a	County	Government	Ashtabula	Ashtabula County
Ashtabula County	<a href="http://www.co.ashtabula.oh.us/web/framesets/ElecOfils.html">http://www.co.ashtabula.oh.us/web/framesets/ElecOfils.html</a>	Timothy Martin	Engineer	186 East Satin Street	Jefferson, OH 44047	(440)576-3707	n/a	County	Government	Ashtabula	Ashtabula County
Ashtabula County	<a href="http://www.co.ashtabula.oh.us/web/framesets/ElecOfils.html">http://www.co.ashtabula.oh.us/web/framesets/ElecOfils.html</a>	Jake Brand	Grant Specialist	25 West Jefferson Street	Jefferson OH 44047	440-576-3825	JABrand@ashtabulacounty.us	County	Government	Ashtabula	Ashtabula County
Ashtabula County Commissioners	<a href="http://www.co.ashtabula.oh.us/web/framesets/ElecOfils.html">http://www.co.ashtabula.oh.us/web/framesets/ElecOfils.html</a>	Joe Moroski	President	25 W. Jefferson St.	Jefferson, OH 44047	(440) 576-3750	n/a	County	Government	Ashtabula	Ashtabula County
Ashtabula County Emergency Management Agency	<a href="http://www.co.ashtabula.oh.us/web/framesets/EmerSvc.html">http://www.co.ashtabula.oh.us/web/framesets/EmerSvc.html</a>	George R. Sabo	Director	25 West Jefferson Street	Jefferson, OH 44047	440-576-9148	ema@co.ashtabula.oh.us	County	Emergency Management	Ashtabula	Ashtabula County Emergency Management Agency
Ashtabula Soil & Water Conservation District	<a href="http://www.ashtabulaswcd.org/">http://www.ashtabulaswcd.org/</a>	Nathan Paskey	District Manager	39 Wall Street	Jefferson, OH 44047	(440) 576-4946	n/a	County	Government	Ashtabula	Ashtabula County
Ashtabula, City of	<a href="http://ci.ashtabula.oh.us/">http://ci.ashtabula.oh.us/</a>	Carl Corbissero	Engineering Department	4717 Main Avenue	Ashtabula, OH 44004	440-992-7118	n/a	Community	Government	Ashtabula	City of Ashtabula
Ashtabula, City of	<a href="http://ci.ashtabula.oh.us/">http://ci.ashtabula.oh.us/</a>	J.P. Ducro , IV	City Council President	430 West Prospect Road	Ashtabula, OH 44004	440-992-4033	jpducro@duro.com	Community	Government	Ashtabula	City of Ashtabula
Ashtabula, City of	<a href="http://ci.ashtabula.oh.us/">http://ci.ashtabula.oh.us/</a>	James Timonere	City Manager	4717 Main Avenue	Ashtabula, OH 44004	440-992-7103	jim@cityofashtabula.com	Community	Government	Ashtabula	City of Ashtabula
Ashtabula Co ODOT	<a href="http://www.dot.state.oh.us/Divisions/Facilities/Facilities/driversguide/District04/Pages/AshtabulaCounty.aspx">http://www.dot.state.oh.us/Divisions/Facilities/Facilities/driversguide/District04/Pages/AshtabulaCounty.aspx</a>	Alan Moore	Manager	492 Seven Hills Road	Ashtabula, OH 44004	(440) 997-2276	n/a	County	Government	Ashtabula	Ashtabula Co ODOT
Chagrin River Watershed	<a href="http://crwp.org/">http://crwp.org/</a>	Christina Znidarsic	Chagrin River Watershed Coordinator	P.O. Box 229	Willoughby, OH 44094	(440)975-3870	n/a	Organization	Environmental	Region	All Lake Erie
Conneaut, City of	<a href="http://conneautohio.gov/?page_id=31">http://conneautohio.gov/?page_id=31</a>	Timothy J. Eggleston	City Manager	294 Main Street	Conneaut, OH 44030	440-593-7401	n/a	Community	Government	Ashtabula	Conneaut, City of
Conneaut, City of	<a href="http://conneautohio.gov/?page_id=31">http://conneautohio.gov/?page_id=31</a>	Thomas Udell	City Council President	294 Main Street	Conneaut, OH 44030	440-593-7401	tudell@conneautohio.org	Community	Government	Ashtabula	Conneaut, City of
Eastlake, City of	<a href="http://www.eastlakeohio.com/city_hall/mayors_office/index.php">http://www.eastlakeohio.com/city_hall/mayors_office/index.php</a>	Ted Andrzejewski	Mayor	35150 Lakeshore Boulevard	Eastlake, OH 44095	440-951-1416 ext.102	n/a	Community	Government	Lake	Eastlake, City of
Eastlake, City of	<a href="http://www.eastlakeohio.com/city_hall/mayors_office/index.php">http://www.eastlakeohio.com/city_hall/mayors_office/index.php</a>	Dennis Morley	City Council President	Council Office 35150 Lakeshore Boulevard	Eastlake, OH 44095	440-951-1416 ext.139	council@eastlakeohio.com	Community	Government	Lake	Eastlake, City of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Eastlake, City of	<a href="http://www.eastlakeohio.com/city_hall/mayors_office/index.php">http://www.eastlakeohio.com/city_hall/mayors_office/index.php</a>	John M. Stigalt	Chief Building Official	35150 Lakeshore Boulevard	Eastlake, OH 44095	440-951-1416 ext. 124	n/a	Community	Government	Lake	Eastlake, City of
Fairport Harbor, Village of	<a href="http://www.fairportvillage.org/">http://www.fairportvillage.org/</a>	Tim Manross	Mayor	Fairport Village Hall 220 Third Street	Fairport Harbor, OH 44077	440-639-1418	mayor@fairportvillage.org	Community	Government	Lake	Fairport Harbor, Village of
Fairport Harbor, Village of	<a href="http://www.fairportvillage.org/">http://www.fairportvillage.org/</a>	Scott Wood	Engineer	CT Consultants 8150 Sterling Court	Willoughby, OH 44094	440-951-9000	ct@ctconsultants.com	Community	Government	Lake	Fairport Harbor, Village of
Geneva On-the-Lake, Village of	<a href="http://genevaonthelake.org/">http://genevaonthelake.org/</a>	Jim Hockaday	City Administrator/Zoning Inspector	4929 South Warner Drive	Geneva-on-the-Lake, OH 44041	440-466-8197	geneva2@windstream.net	Community	Government	Ashtabula	Geneva On-the-Lake, Village of
Geneva On-the-Lake, Village of	<a href="http://genevaonthelake.org/">http://genevaonthelake.org/</a>	Dave Nelson	Mayor	4929 South Warner Drive	Geneva-on-the-Lake, OH 44041	440-466-8197/4151388	mayorgotl@windstream.net	Community	Government	Ashtabula	Geneva On-the-Lake, Village of
Geneva On-the-Lake, Village of	<a href="http://genevaonthelake.org/">http://genevaonthelake.org/</a>	Dave Nelson	Mayor	4929 South Warner Drive	Geneva-on-the-Lake, OH 44041	440-466-8197/4151388	mayorgotl@windstream.net	Community	Government	Ashtabula	Geneva On-the-Lake, Village of
Grand River Partners, Inc	<a href="http://ohiowatersheds.osu.edu/groups/wg_p_group?id=44">http://ohiowatersheds.osu.edu/groups/wg_p_group?id=44</a>	George Warnock	Watershed Coordinator	P.O. Box 314	Novelty, OH 44072	(440) 357-4837	n/a	Watershed	Government		Grand River Partners, Inc
Grand River, Village of	<a href="http://grandriverohio.net/">http://grandriverohio.net/</a>	Christopher Conley	Mayor	P.O. Box 125	Grand River OH 44045	440-352-7012	mayorconley@grandriverohio.com	Community	Government	Lake	Grand River, Village of
Grand River, Village of	<a href="http://grandriverohio.net/">http://grandriverohio.net/</a>	Jennifer Hood	Council President	P.O. Box 668	Grand River OH 44045	440-721-7250	hood@grandriverohio.com	Community	Government	Lake	Grand River, Village of
Grand River, Village of	<a href="http://grandriverohio.net/">http://grandriverohio.net/</a>	Frank Walland	Zoning Inspector	P.O. Box 216 205 Singer Avenue	Grand River OH 44045	440-357-5222 ext 11	zoning@grandriverohio.com	Community	Government	Lake	Grand River, Village of
Lake Co ODOT	<a href="http://www.lakecountyo.org/">http://www.lakecountyo.org/</a>	Dave Paponetti	Manager	10 Blackbrook Road	Painesville, OH 44077	(216) 584-2050	n/a	County	Government	Lake	Lake County
Lake County	<a href="http://www.lakecountyo.org/">http://www.lakecountyo.org/</a>	James Gills	Engineer	550 Blackbrook Road	Painesville, OH 44077	(440) 350-2770	n/a	County	Government	Lake	Lake County
Lake County	<a href="http://www.lakecountyo.org/">http://www.lakecountyo.org/</a>	Larry D. Greene	EMA Director	8505 Garfield Road	Mentor, OH 44060	440-350-5499	larry.greene@lakecountyo.org	County	Government	Lake	Lake County
Lake County Commissioners	<a href="http://www.lakecountyo.org/">http://www.lakecountyo.org/</a>	Raymond Sines	President	105 Main St P.O. Box 490	Painesville, OH 44077	(440) 350-2755	n/a	County	Government	Lake	Lake County
Lake County Emergency Management	<a href="http://www.lakecountyo.org/">http://www.lakecountyo.org/</a>	John Church	Deputy Director	8505 Garfield Rd.	Mentor, OH 44061-9998	440-350-5304	John.Church@lakecountyo.org	County	Emergency Management	Lake	Lake County
Lake County GIS	<a href="http://www.lakecountyo.org/">http://www.lakecountyo.org/</a>	Jim Branch		105 Main Street	Painesville, OH 44004	440-350-5470	jim.branch@lakecountyo.org	County	Lake County GIS	Lake	Lake County
Lake SWCD	<a href="http://www.lakecountyo.org/swcd/Home.aspx">http://www.lakecountyo.org/swcd/Home.aspx</a>	Dan Donaldson	District Administrator	125 East Erie Street	Painesville, OH 44077	(440) 350-2730	n/a	County		Lake	Lake County
Lake SWCD	<a href="http://www.lakecountyo.org/swcd/Home.aspx">http://www.lakecountyo.org/swcd/Home.aspx</a>	George Hadden	Lake Co Drainage Engineer	550 Blackbrook Road	Painesville, OH 44077	(440) 350-2770	n/a	County		Lake	Lake County

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Lake SWCD	<a href="http://www.lakecountyoohio.gov/swcd/Home.aspx">http://www.lakecountyoohio.gov/swcd/Home.aspx</a>	Maurine Orndorff	Lake County Soil and Water Conservation District	125 E. Erie Street	Painesville, OH 44077	(440) 350-5863	n/a	County		Lake	Lake County
Lakeline, Village of		Deborah Neale	Mayor	33801 Lakeshore Boulevard	Lakeline, OH 44095	n/a	n/a	Community	Government	Lake	Lakeline, Village of
Land Design Consultants	<a href="http://www.ldcinc.net">www.ldcinc.net</a>	Frank Chorba, P.E., P.S.		9025 Osborne Drive	Mentor, OH 44060	440-255-8463	FrankC@ldcinc.net	Private	Land Design Consultants		All Lake Erie
Mentor, City of	<a href="http://cityofmentor.com/">http://cityofmentor.com/</a>	Jim Decker	Floodplain Administrator	8500 Civic Ctr	Mentor, OH 44060	440-974-5785	Decker@cityofmentor.com	Community	City of Mentor	Lake	Mentor, City of
Mentor, City of	<a href="http://cityofmentor.com/">http://cityofmentor.com/</a>	Kenneth J. Filipiak	City Manager	Mentor Municipal Center	Mentor, OH 44060	440-974-5790	citymgr@cityofmentor.com	Community	Government	Lake	Mentor, City of
Mentor, City of	<a href="http://cityofmentor.com/">http://cityofmentor.com/</a>	Matt Schweikert	Public Works, Director	Mentor Municipal Center 8500 Civic Center Boulevard	Mentor, OH 44060	440-974-5781	pubworks@cityofmentor.com	Community	Government	Lake	Mentor, City of
Mentor, City of	<a href="http://cityofmentor.com/">http://cityofmentor.com/</a>	Dave Swiger	City Council	Mentor Municipal Center 8500 Civic Center Boulevard	Mentor, OH 44060	440-974-5785	building@cityofmentor.com	Community	Government	Lake	Mentor, City of
Mentor-on-the-Lake, City of	<a href="http://www.citymol.org/citycouncil.aspx">http://www.citymol.org/citycouncil.aspx</a>	Frank Federico	City Engineer	CT Consultants	Willoughby, OH 44094	440-951-9000	ct@ctconsultants.com	Community	Government	Lake	Mentor-on-the-Lake, City of
Mentor-on-the-Lake, City of	<a href="http://www.citymol.org/citycouncil.aspx">http://www.citymol.org/citycouncil.aspx</a>	John M. Rogers	Mayor	5860 Andrews Road	Mentor-on-the-Lake, OH 44060-2827	440-257-7216	CityHall@CityMOL.org	Community	Government	Lake	Mentor-on-the-Lake, City of
Mentor-on-the-Lake, City of	<a href="http://www.citymol.org/citycouncil.aspx">http://www.citymol.org/citycouncil.aspx</a>	Andy Rose	Council President	8027 Linden	Mentor-on-the-Lake, OH 44060	440-257-7952	n/a	Community	Government	Lake	Mentor-on-the-Lake, City of
North Kingsville, Village of	<a href="http://www.northkingsvilleohio.org/administration.htm">http://www.northkingsvilleohio.org/administration.htm</a>	Terrance McConnell	Mayor	3541 East Center Street	North Kingsville, OH 44068	440-224-0091	n/a	Community	Government	Ashtabula	North Kingsville, Village of
North Kingsville, Village of	<a href="http://www.northkingsvilleohio.org/administration.htm">http://www.northkingsvilleohio.org/administration.htm</a>	Edward Rettinger	Council President	3541 East Center Street	North Kingsville, OH 44068	440-224-1665	n/a	Community	Government	Ashtabula	North Kingsville, Village of
North Perry, Village of	<a href="http://northperry.org/officials.aspx">http://northperry.org/officials.aspx</a>	Dwyane Bailey	Zoning Inspector	4449 Lockwood Road	North Perry OH 44081	440-259-5525	dbailey@northperry.org	Community	Government	Lake	North Perry, Village of
North Perry, Village of	<a href="http://northperry.org/officials.aspx">http://northperry.org/officials.aspx</a>	Edward Klco	Mayor	4449 Lockwood Road	North Perry OH 44081	440-259-2713	mayor@northperry.org	Community	Government	Lake	North Perry, Village of
ODNR Office of Coastal Management	<a href="http://ohiodnr.com/coastal/OCMCoastalHome/tabid/9261/Default.aspx">http://ohiodnr.com/coastal/OCMCoastalHome/tabid/9261/Default.aspx</a>	James Park		105 E Shoreline Dr	Sandusky, OH 44820	419-609-4114	james.park@dnr.state.oh.us	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	Sandy Bihn	Executive Director of Lake Erie Waterkeeper	1711 North Summit Bldg. 2	Toledo, Ohio 43611	419-691-3788	sandylakeerie@aol.com	State	Environmental	Ohio	Ohio

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	Thomas Denbow	Director of Water and Ecological Resources at URS Corporation's Cleveland Office	1375 Euclid Avenue, Suite 600	Cleveland, OH 44115	n/a	n/a	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	Eric Dodrill	Highway Superintendent for Perkins Township, Erie County, Ohio	2610 Columbus Avenue, Unit 9	Sandusky, OH 44870	419-609-1433	highway@perki nstownship.com	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	John Hageman	Manager of The Ohio State University's F. T. Stone Laboratory	1314 Kinnear Rd, Area 100	Columbus, OH 43212-1156	614.292.8949	n/a	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	Joseph Hayberger	Realtor	1805 E. Perkins Avenue	Sandusky, OH 44870	(419) 625-2752 Ext. 116	n/a	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	Charles Herdendorf		1314 Kinnear Rd, Area 100	Columbus, OH 43212-1156	614.292.8949	n/a	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	James Kastelic	Senior Park Planner with Cleveland Metroparks	4101 Fulton Parkway	Cleveland, Ohio 44144	216-635-3200	n/a	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	John Keenan	Laboratory Technician for Plasticolors, Inc.	2600 Michigan Avenue PO Box 816	Ashtabula, OH 44005	n/a	n/a	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	James O'Connor		105 W. Shoreline Drive	Sandusky OH 44870	n/a	n/a	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	Carrie Sowden	Archaeological Director at the Peachman Lake Erie Shipwreck Research Center (PLESRC)	480 Main Street, PO Box 435	Vermilion, OH 44089	440.967.3467 x 6	shipwreck@inlandseas.org	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	David Spotts, Esq.	Admiralty & Maritime attorney	6847 Lake Road West	Ashtabula, OH 44004	n/a	n/a	State	Environmental	Ohio	Ohio



Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	Tom Szabo	Owner of A Thomas Image	7290 Waterfowl Way	Concord Twp, OH 44077	n/a	n/a	State	Environmental	Ohio	Ohio
Ohio Coastal Resources Advisory Council	<a href="http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx">http://www.ohiodnr.com/LakeErie/CRAC/tabid/9307/Default.aspx</a>	Vince Urbanski	Environmental Planner with Lake Metroparks	11211 Spear Road	Concord Twp., OH 44077	n/a	n/a	State	Environmental	Ohio	Ohio
Ohio Department of Natural Resources - Wildlife	<a href="http://ohiodnr.com/tabid/4414/Default.aspx">http://ohiodnr.com/tabid/4414/Default.aspx</a>	Heather Elmer		2514 Cleveland Rd E	Huron, OH 44839	419-433-4601	heather.elmer@dnr.state.oh.us	State	Environmental	Ohio	Ohio
Ohio Department of Natural Resources Office of Coastal Management	<a href="http://ohiodnr.com/coastal/OCMCoastalHome/tabid/9261/Default.aspx">http://ohiodnr.com/coastal/OCMCoastalHome/tabid/9261/Default.aspx</a>	Jason Trapp	Natural Resource Engineer	106 West Shoreline Drive	Sandusky, Ohio 44871	419-609-4110	Jason.Trapp@dnr.state.oh.us	State	Environmental	Ohio	Ohio
Ohio DNR	<a href="http://www.dnr.state.oh.us/">http://www.dnr.state.oh.us/</a>	Tim Beck, P.E.		2046 Morse Road	Columbus, OH 42228	614-265-6722	tim.beck@dnr.state.oh.us	State	Environmental	Ohio	Ohio
Ohio DNR	<a href="http://www.dnr.state.oh.us/">http://www.dnr.state.oh.us/</a>	Randy Keitz		2207 Reiser Ave SE	New Philadelphia, OH 44663	330-339-2207	randy.keitz@dnr.state.oh.us	State	Environmental	Ohio	Ohio
Ohio DNR	<a href="http://www.dnr.state.oh.us/">http://www.dnr.state.oh.us/</a>	Ben Kelley		2045 Morse Road	Columbus, OH 42227	614-265-6705	benjamin.kelley@dnr.state.oh.us	State	Environmental	Ohio	Ohio
Ohio DNR	<a href="http://www.dnr.state.oh.us/">http://www.dnr.state.oh.us/</a>	Katherine Skalak		2045 Morse Road	Columbus, OH	614-265-6709	katherine.skalak@dnr.state.oh.us	State	Environmental	Ohio	Ohio
Ohio DNR Office of Coastal Management	<a href="http://ohiodnr.com/coastal/OCMCoastalHome/tabid/9261/Default.aspx">http://ohiodnr.com/coastal/OCMCoastalHome/tabid/9261/Default.aspx</a>	Mark Cencer	Natural Resources Engineer	105 West Shoreline Drive	Sandusky, Ohio 44870	419-609-4125	Mark.Cencer@dnr.state.oh.us	State	Environmental	Ohio	Ohio
Ohio Sea Grant		Frank Lichtkoppler				440.350.2267	flichtkoppler@lakecountyohio.gov	State	Environmental	Ohio	Ohio
Ohio Emergency Management Agency	<a href="http://ema.ohio.gov/">http://ema.ohio.gov/</a>	Steven Ferryman	State Hazard Mitigation officer	2855 West Dublin-Granville Rd	Columbus OH 43235	614-799-3539	saferryman@dnr.state.oh.us	State	Emergency Management Agency	Ohio	Ohio
The Goudreau Companies		George Goudreau Jr.	President and CEO of The Goudreau Companies	9701 BROOKPARK RD	Cleveland, Ohio 44129	216) 741-7524	n/a	Private	Ohio Coastal Resources Advisory Council	Region	All Lake Erie
Timberlake, Village of	<a href="http://www.villageoftimberlake.com/">http://www.villageoftimberlake.com/</a>	Dave Catanni	Mayor	41 East Shore	Timberlake, OH 44095	440-269-0705	dcattani@villageoftimberlake.com	Community	Government	Lake	Timberlake, Village of
Timberlake, Village of	<a href="http://www.villageoftimberlake.com/">http://www.villageoftimberlake.com/</a>	Jim Gaiser	Safety Committee	15 Keewaydin	Timberlake, OH 44095	440-946-3597	jgaiser@villageoftimberlake.com	Community	Government	Lake	Timberlake, Village of
USACE - Detroit District	<a href="http://chl.erd.usace.army.mil/Media/5/7/4/chetn-vi-4.pdf">http://chl.erd.usace.army.mil/Media/5/7/4/chetn-vi-4.pdf</a>	Greg Mausolf	Hydraulic Engineer	477 Michigan Avenue	Detroit, MI 48226-2575	313-226-3389	Gregory.M.Mausolf@usace.army.mil		Engineering	Region	All Lake Erie

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
USACE, Buffalo District		Laura Ortiz		1776 Niagara Street	Buffalo, NY 14207	716-879-4407	laura.v.ortiz@usace.army.mil		Engineering	Region	All Lake Erie
USACE, Buffalo District		Robert Remmers		1776 Niagara Street	Buffalo, NY 14207	716-879-4277	Robert.w.remmers@usace.army.mil		Engineering	Region	All Lake Erie
Willoughby, City of	<a href="http://willoughbyohio.com/">http://willoughbyohio.com/</a>	David E. Anderson	Mayor	One Public Square	Willoughby, OH 44094	440-953-4124	<a href="http://www.egovlink.com/willoughby-oh/action.asp?actionid=4404">http://www.egovlink.com/willoughby-oh/action.asp?actionid=4404</a>	City	Government	Lake	Willoughby, City of
Willoughby, City of		Jim Sayles	City Engineer	CT Consultants 8150 Sterling Court	Mentor, OH 44060	440-951-9000	ct@ctconsultants.com	City	Government	Lake	Willoughby, City of
Willoughby, City of		Richard Smith	Building & Zoning Inspector	One Public Square	Willoughby, OH 44094	440-953-4120	rsmith@willoughbyohio.com	City	Willoughby, City of	Lake	Willoughby, City of
Willowick, City of	<a href="http://www.cityofwillowick.com/">http://www.cityofwillowick.com/</a>	Richard Bonde	Mayor	30435 Lakeshore Blvd.	Willowick, OH 44095	440-585-3700	rbonde@cityofwillowick.com	City	Government	Lake	Willowick, City of
Willowick, City of	<a href="http://www.cityofwillowick.com/">http://www.cityofwillowick.com/</a>	Joe Domanick	Building Department	31230 Vine Street	Willowick, OH 44095	440-516-3000	jdominick@cityofwillowick.com	City	Government	Lake	Willowick, City of
Willowick, City of	<a href="http://www.cityofwillowick.com/">http://www.cityofwillowick.com/</a>	Judy Moran	Council President	30435 Lakeshore Blvd.	Willowick, OH 44095	440-585-3700	jmoran@cityofwillowick.com	City	Government	Lake	Willowick, City of

Attachment A-2  
Discovery Meeting Invitations

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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jake Brand  
Grant Specialist, Ashtabula County  
25 West Jefferson Street  
Jefferson, Ohio 44047

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Brand:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

Jake Brand  
June 29, 2012  
Page 2

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 Ohio, 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:

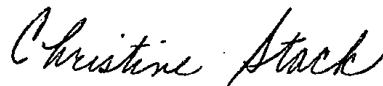
Date: July 12, 2012  
Time: 2:00 pm – 3:00 pm  
Link to WebEx: <https://dewberry.webex.com/dewberry>  
Call in number: 1-888-330-9552  
Code: 1087974

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 13, 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: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

George Sabo  
Director, Ashtabula County  
Emergency Management  
25 West Jefferson Street  
Jefferson, Ohio 44047

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Sabo:

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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Location:	Lake County Emergency Operations Center
Address:	8505 Garfield Road, Mentor, OH

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George Sabo  
June 29, 2012  
Page 2

contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 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 Ohio, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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Link to WebEx:	<a href="https://dewberry.webex.com/dewberry">https://dewberry.webex.com/dewberry</a>
Call in number:	1-888-330-9552
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Via e-mail:	<a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a>
Or by mail:	Andy Brunt c/o RAMPP 8401 Arlington Boulevard Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jim Decker  
Floodplain Administrator, City of Mentor  
8500 Civic Center  
Mentor, Ohio 44060

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Decker:

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 – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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Jim Decker  
June 29, 2012  
Page 2

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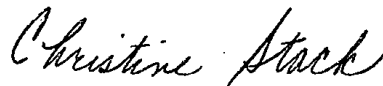
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Call in number: 1-888-330-9552  
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Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Timothy J. Eggleston  
City Manager, City of Conneaut  
294 Main Street  
Conneaut, Ohio 44030

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Eggleston:

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 July 19, 2012  
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Timothy J. Eggleston  
June 29, 2012  
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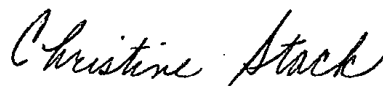
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Carl Corbissero  
Engineering Department, City of Ashtabula  
4717 Main Avenue  
Ashtabula, Ohio 44004

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Corbissero:

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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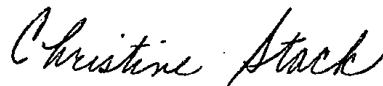
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

J.P. Ducro, IV  
City Council President, City of Ashtabula  
430 West Prospect Road  
Ashtabula, Ohio 44004

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Ducro:

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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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Timothy J. Eggleston  
City Manager, City of Conneaut  
294 Main Street  
Conneaut, Ohio 44030

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

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Timothy J. Eggleston  
June 29, 2012  
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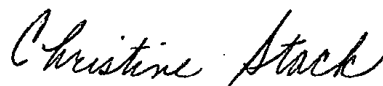
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jim Hockaday  
City Administrator and Zoning Inspector  
Village of Geneva On-the-Lake  
4929 South Warner Drive  
Geneva-on-the-Lake, Ohio 44041

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Hockaday:

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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Jim Hockaday  
June 29, 2012  
Page 2

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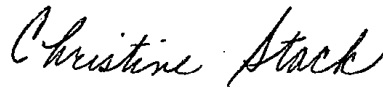
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Timothy Martin  
Engineer, Ashtabula County  
186 East Satin Street  
Jefferson, Ohio 44047

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Martin:

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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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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

Timothy Martin  
June 29, 2012  
Page 2

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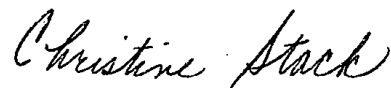
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Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Terrance McConnell  
Mayor, Village of North Kingsville  
3541 East Center Street  
North Kingsville, Ohio 44068

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor McConnell:

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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The Honorable Terrance McConnell

June 29, 2012

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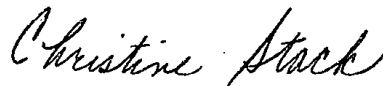
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Alan Moore  
Manager, Ashtabule County ODOT  
492 Seven Hills Road  
Ashtabula, Ohio 44004

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Moore:

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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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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Joe Moroski  
President, Ashtabula County Commissioners  
25 West Jefferson Street  
Jefferson, Ohio 44047

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Moroski:

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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Joe Moroski  
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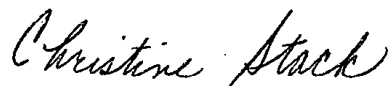
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Dave Nelson  
Mayor, Village of Geneva On-the-Lake  
4929 South Warner Drive  
Geneva-on-the-Lake, Ohio 44041

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Nelson:

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The Honorable Dave Nelson

June 29, 2012

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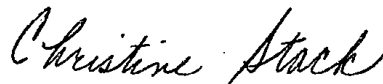
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Nathan Paskey  
District Manager, Ashtabula SWCD  
39 Wall Street  
Jefferson, Ohio 44047

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Paskey:

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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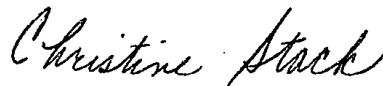
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Edward Rettinger  
Council President, Village of North Kingsville  
3541 East Center Street  
North Kingsville, Ohio 44068

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Rettinger:

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Edward Rettinger  
June 29, 2012  
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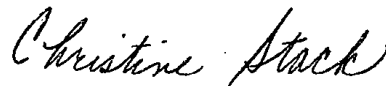
Date: July 12, 2012  
Time: 2:00 pm – 3:00 pm  
Link to WebEx: <https://dewberry.webex.com/dewberry>  
Call in number: 1-888-330-9552  
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Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

George R. Sabo  
Director, Ashtabula County  
Emergency Management Agency  
25 West Jefferson Street  
Jefferson, Ohio 44047

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Sabo:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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

George R. Sabo  
June 29, 2012  
Page 2

contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

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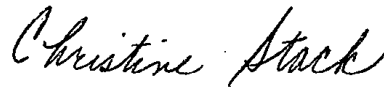
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Dave Smith  
Chief Building Official, Ashtabula County  
25 West Jefferson Street  
Jefferson, Ohio 44047

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Smith:

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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Dave Smith  
June 29, 2012  
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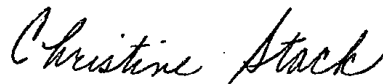
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

James Timonere  
City Manager, City of Ashtabula  
4717 Main Avenue  
Ashtabula, Ohio 44004

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Timonere:

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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James Timonere  
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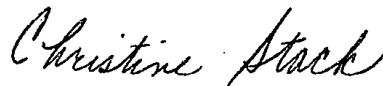
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Thomas Udell  
City Council President, City of Conneaut  
294 Main Street  
Conneaut, Ohio 44030

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Udell:

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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Thomas Udell  
June 29, 2012  
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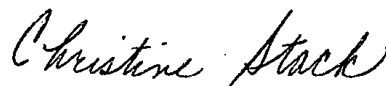
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

George Warnock  
Watershed Coordinator  
Grand River Partners, Inc  
P.O. Box 314  
Novelty, Ohio 44072

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Warnock:

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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George Warnock  
June 29, 2012  
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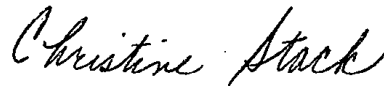
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable David E. Anderson  
Mayor, City of Willoughby  
One Public Square  
Willoughby, Ohio 44094

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Anderson:

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The Honorable David E. Anderson  
June 29, 2012  
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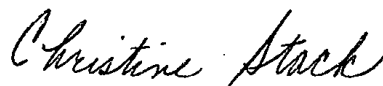
Date: July 12, 2012  
Time: 2:00 pm – 3:00 pm  
Link to WebEx: <https://dewberry.webex.com/dewberry>  
Call in number: 1-888-330-9552  
Code: 1087974

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Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Ted Andrzejewski  
Mayor, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Andrzejewski:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

The Honorable Ted Andrzejewski  
June 29, 2012  
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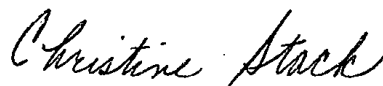
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Dwyane Bailey  
Zoning Inspector, Village of North Perry  
4449 Lockwood Road  
North Perry, Ohio 44081

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Bailey:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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Dwyane Bailey  
June 29, 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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Richard Bonde  
Mayor, City of Willowick  
30435 Lakeshore Boulevard  
Willowick, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Bonde:

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 Honorable Richard Bonde  
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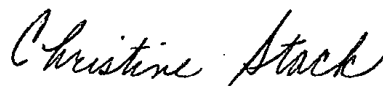
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Dave Catanni  
Mayor, Village of Timberlake  
41 East Shore  
Timberlake, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Catanni:

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 Honorable Dave Catanni

June 29, 2012

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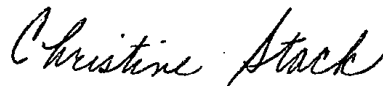
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Christopher Conley  
Mayor, Village of Grand River  
P.O. Box 125  
Grand River, Ohio 44045

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Conley:

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 Honorable Christopher Conley  
June 29, 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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Joe Domonick  
Building Department, City of Willowick  
31230 Vine Street  
Willowick, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Domonick:

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Joe Domonick  
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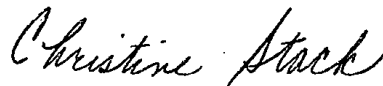
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If you or another community representative is unable to attend the Information Exchange conference call, we ask that you fill out and return the enclosed data request form by July 13, 2012. This is the same data request form that will be discussed during the conference call. The completed form can be sent to:

Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Frank Federico  
City Engineer, City of Mentor-on-the-Lake  
CT Consultants  
3500 Kaiser Court  
Willoughby, Ohio 44094

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Federico:

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 July 19, 2012
Time:	2:30 pm – 4:30 pm
Location:	Lake County Emergency Operations Center
Address:	8505 Garfield Road, Mentor, OH

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

Frank Federico  
June 29, 2012  
Page 2

contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 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 Ohio, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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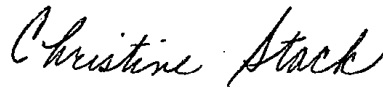
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Kenneth J. Filipiak  
City Manager, City of Mentor  
Mentor Municipal Center  
8500 Civic Center Boulevard  
Mentor, Ohio 44060

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Filipiak:

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 July 19, 2012
Time:	2:30 pm – 4:30 pm
Location:	Lake County Emergency Operations Center
Address:	8505 Garfield Road, Mentor, OH

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Kenneth J. Filipiak  
June 29, 2012  
Page 2

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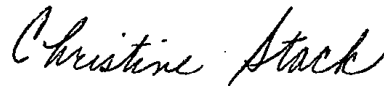
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jim Gaiser  
Safety Committee, Village of Timberlake  
15 Keewaydin  
Timberlake, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Gaiser:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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Jim Gaiser  
June 29, 2012  
Page 2

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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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

James Gills  
Engineer, Lake County  
550 Blackbrook Road  
Painesville, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Gills:

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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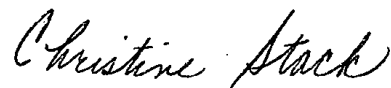
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Larry D. Greene  
EMA Director, Lake County  
8505 Garfield Road  
Mentor, Ohio 44060

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Greene:

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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Location: Lake County Emergency Operations Center  
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Larry D. Greene  
June 29, 2012  
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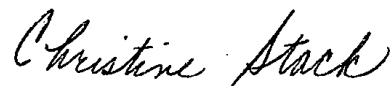
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jim Hockaday  
City Administrator and Zoning Inspector  
Village of Geneva On-the-Lake  
4929 South Warner Drive  
Geneva-on-the-Lake, Ohio 44041

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Hockaday:

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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Jim Hockaday  
June 29, 2012  
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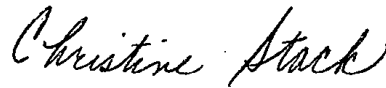
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Or by mail:	Andy Brunt c/o RAMPP 8401 Arlington Boulevard Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jennifer Hood  
Council President, Village of Grand River  
P.O. Box 668  
Grand River, Ohio 44045

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Hood:

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 July 19, 2012
Time:	2:30 pm – 4:30 pm
Location:	Lake County Emergency Operations Center
Address:	8505 Garfield Road, Mentor, OH

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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

Jennifer Hood  
June 29, 2012  
Page 2

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Date: July 12, 2012  
Time: 2:00 pm – 3:00 pm  
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Call in number: 1-888-330-9552  
Code: 1087974

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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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Edward Klco  
Mayor, Village of North Perry  
4449 Lockwood Road  
North Perry, Ohio 44081

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Klco:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Tim Manross  
Mayor, Village of Fairport Harbor  
Fairport Village Hall  
220 Third Street  
Fairport Harbor, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Manross:

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 – 4:30 pm
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Address:	8505 Garfield Road, Mentor, OH

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The Honorable Tim Manross  
June 29, 2012  
Page 2

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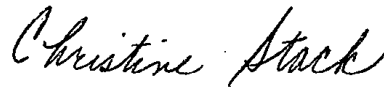
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Or by mail:	Andy Brunt c/o RAMPP 8401 Arlington Boulevard Fairfax, VA 22031

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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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Judy Moran  
Council President, City of Willowick  
30435 Lakeshore Boulevard  
Willowick, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Moran:

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 July 19, 2012  
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Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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Judy Moran  
June 29, 2012  
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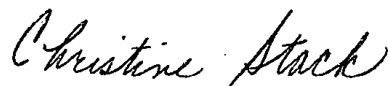
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Dennis Morley  
City Council President, City of Eastlake  
Council Office  
35150 Lakeshore Boulevard  
Eastlake, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Morley:

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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Dennis Morley  
June 29, 2012  
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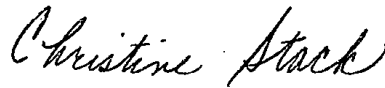
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Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Deborah Neale  
Mayor, Village of Lakeline  
33801 Lakeshore Boulevard  
Lakeline, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Neale:

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The Honorable Deborah Neale  
June 29, 2012  
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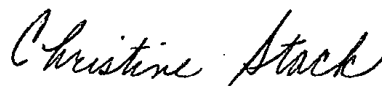
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable Dave Nelson  
Mayor, Village of Geneva On-the-Lake  
4929 South Warner Drive  
Geneva-on-the-Lake, Ohio 44041

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Nelson:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

The Honorable Dave Nelson

June 29, 2012

Page 2

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The Information Exchange conference call is scheduled to occur:

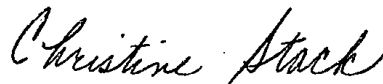
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Time: 2:00 pm – 3:00 pm  
Link to WebEx: <https://dewberry.webex.com/dewberry>  
Call in number: 1-888-330-9552  
Code: 1087974

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Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

The Honorable John M. Rogers  
Mayor, City of Mentor-on-the-Lake  
5860 Andrews Road  
Mentor-on-the-Lake, Ohio 44060-2827

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mayor Rogers:

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 Honorable John M. Rogers

June 29, 2012

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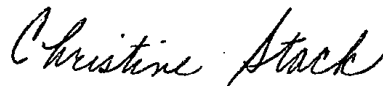
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Andy Rose  
Council President, City of Mentor-on-the-Lake  
8027 Linden  
Mentor-on-the-Lake, Ohio 44060

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Rose:

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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Andy Rose  
June 29, 2012  
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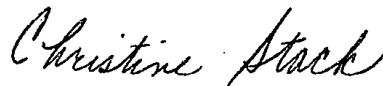
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jim Sayles  
City Engineer, City of Willoughby  
CT Consultants  
8150 Sterling Court  
Mentor, Ohio 44060

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Sayles:

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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Jim Sayles  
June 29, 2012  
Page 2

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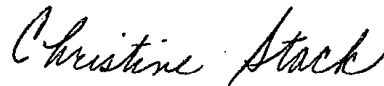
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Or by mail:	Andy Brunt c/o RAMPP 8401 Arlington Boulevard Fairfax, VA 22031

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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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Matt Schweikert  
Public Works Director, City of Mentor  
Mentor Municipal Center  
8500 Civic Center Boulevard  
Mentor, Ohio 44060

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Schweikert:

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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Matt Schweikert  
June 29, 2012  
Page 2

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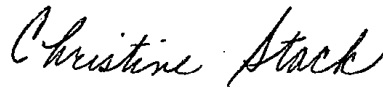
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Division Director  
Mitigation Division, FEMA Region V

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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Raymond Sines  
President, Lake County Commissioners  
105 Main Street  
P.O. Box 490  
Painesville, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Sines:

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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Raymond Sines  
June 29, 2012  
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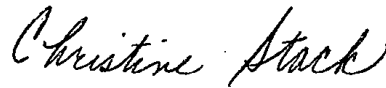
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Community Discovery Coastal Data Request Form



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

John M. Stigalt  
Chief Building Official, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, Ohio 44095

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Stigalt:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

John M. Stigalt  
June 29, 2012  
Page 2

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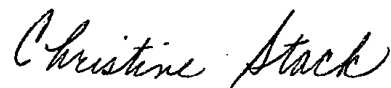
Date: July 12, 2012  
Time: 2:00 pm – 3:00 pm  
Link to WebEx: <https://dewberry.webex.com/dewberry>  
Call in number: 1-888-330-9552  
Code: 1087974

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 13, 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: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Dave Swiger  
City Council, City of Mentor  
Mentor Municipal Center  
8500 Civic Center Boulevard  
Mentor, Ohio 44060

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Swiger:

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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Dave Swiger  
June 29, 2012  
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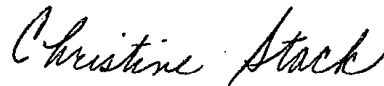
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Frank Walland  
Zoning Inspector, Village of Grand River  
P.O. Box 216  
205 Singer Avenue  
Grand River, Ohio 44045

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Walland:

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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Frank Walland  
June 29, 2012  
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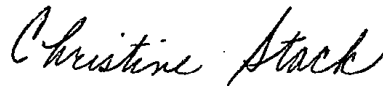
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

George Warnock  
Watershed Coordinator  
Grand River Partners, Inc  
P.O. Box 314  
Novelty, Ohio 44072

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Warnock:

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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George Warnock  
June 29, 2012  
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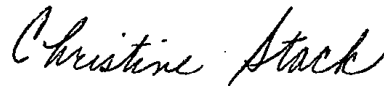
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Scott Wood  
Engineer, Village of Fairport Harbor  
CT Consultants  
3500 Kaiser Court  
Willoughby, Ohio 44094

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Wood:

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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Scott Wood  
June 29, 2012  
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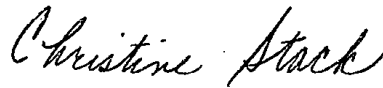
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Division Director  
Mitigation Division, FEMA Region V

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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

John Church  
Deputy Director, Lake County  
Emergency Management  
8505 Garfield Road  
Mentor, Ohio 44061-9998

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Church:

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John Church  
June 29, 2012  
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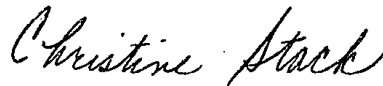
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Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jim Branch  
Lake County GIS  
105 Main Street  
Painesville, Ohio 44004

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Branch:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 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 Ohio, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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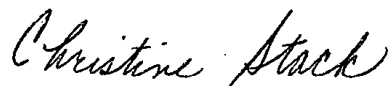
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8401 Arlington Boulevard  
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Frank Chorba, P.E., P.S.  
Land Design Consultants  
9025 Osborne Drive  
Mentor, Ohio 44060

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Chorba:

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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Frank Chorba, P.E., P.S.

June 29, 2012

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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

James Park  
ODNR Office of Coastal Management  
105 East Shoreline Drive  
Sandusky, Ohio 44820

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Park:

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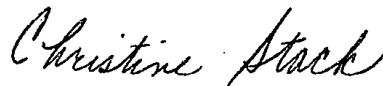
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

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ODNR Office of Coastal Management  
105 East Shoreline Drive  
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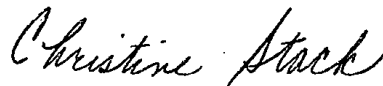
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Division Director  
Mitigation Division, FEMA Region V

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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Sandy Bihn  
Executive Director, Lake Erie Waterkeeper  
1711 North Summit, Building 2  
Toledo, Ohio 43611

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Bihn:

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Sandy Bihn  
June 29, 2012  
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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Thomas Denbow  
Director of Water and Ecological Resources, URS  
1375 Euclid Avenue, Suite 600  
Cleveland, Ohio 44115

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Denbow:

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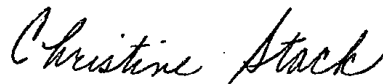
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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Eric Dodrill  
Highway Superintendent, Perkins Township  
2610 Columbus Avenue, Unit 9  
Sandusky, Ohio 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Dodrill:

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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 July 19, 2012
Time:	2:30 pm – 4:30 pm
Location:	Lake County Emergency Operations Center
Address:	8505 Garfield Road, Mentor, OH

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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

Eric Dodrill  
June 29, 2012  
Page 2

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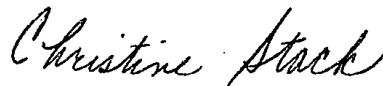
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Via e-mail: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

George Goudreau, Jr.  
President and CEO, The Goudreau Companies  
9701 Brookpark Road  
Cleveland, Ohio 44129

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Goudreau:

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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George Goudreau, Jr.  
June 29, 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

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Increasing Resilience Together

June 29, 2012

John Hageman  
Manager of The Ohio State University's  
F. T. Stone Laboratory  
1314 Kinnear Road, Area 100  
Columbus, Ohio 43212-1156

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Hageman:

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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John Hageman  
June 29, 2012  
Page 2

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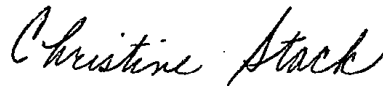
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Joseph Hayberger  
Realtor  
1805 East Perkins Avenue  
Sandusky, Ohio 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Hayberger:

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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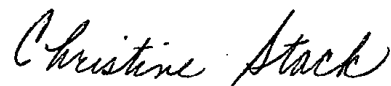
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

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Increasing Resilience Together

June 29, 2012

Charles Herdendorf  
1314 Kinnear Road, Area 100  
Columbus, Ohio 43212-1156

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Herdendorf:

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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Charles Herdendorf  
June 29, 2012  
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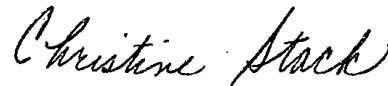
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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

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Increasing Resilience Together

June 29, 2012

James Kastelic  
Senior Park Planner, Cleveland Metroparks  
4101 Fulton Parkway  
Cleveland, Ohio 44144

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Kastelic:

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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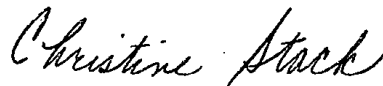
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Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

John Keenan  
Laboratory Technician, Plasticolors, Inc.  
2600 Michigan Avenue  
P.O. Box 816  
Ashtabula, Ohio 44005

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Keenan:

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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 July 19, 2012
Time:	2:30 pm – 4:30 pm
Location:	Lake County Emergency Operations Center
Address:	8505 Garfield Road, Mentor, OH

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

John Keenan  
June 29, 2012  
Page 2

contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 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 Ohio, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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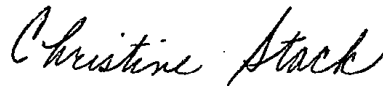
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If you or another community representative is unable to attend the Information Exchange conference call, we ask that you fill out and return the enclosed data request form by July 13, 2012. This is the same data request form that will be discussed during the conference call. The completed form can be sent to:

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Or by mail:	Andy Brunt c/o RAMPP 8401 Arlington Boulevard Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

James O'Connor  
105 West Shoreline Drive  
Sandusky, Ohio 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. O'Connor:

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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James O'Connor  
June 29, 2012  
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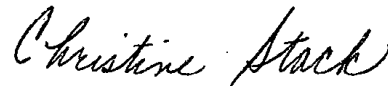
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

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Increasing Resilience Together

June 29, 2012

Carrie Sowden  
Archaeological Director at the Peachman  
Lake Erie Shipwreck Research Center (PLESRC),  
480 Main Street  
P.O. Box 435  
Vermilion, Ohio 44089

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Sowden:

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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Carrie Sowden  
June 29, 2012  
Page 2

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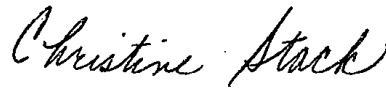
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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





FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

David Spotts, Esq.  
Admiralty and Maritime Attorney  
6847 Lake Road West  
Ashtabula, Ohio 44004

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Spotts:

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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David Spotts, Esq.  
June 29, 2012  
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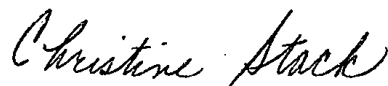
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Tom Szabo  
A Thomas Image  
7290 Waterfowl Way  
Concord Township, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Szabo:

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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Tom Szabo  
June 29, 2012  
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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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Vince Urbanski  
Environmental Planner, Lake Metroparks  
11211 Spear Road  
Concord Township, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Urbanski:

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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Vince Urbanski  
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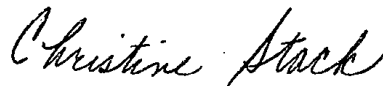
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Mitigation Division, FEMA Region V

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Community Discovery Coastal Data Request Form



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Heather Elmer  
Ohio Department of Natural Resources - Wildlife  
2514 Cleveland Road East  
Huron, Ohio 44839

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Elmer:

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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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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 contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 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 Ohio, and your community is vital to the success of identifying flood risks and needs that may impact your citizens.

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Link to WebEx: <https://dewberry.webex.com/dewberry>  
Call in number: 1-888-330-9552  
Code: 1087974

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Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Jason Trapp  
Natural Resource Engineer, Ohio Department  
of Natural Resources Office of Coastal Management  
106 West Shoreline Drive  
Sandusky, Ohio 44871

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Trapp:

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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Jason Trapp  
June 29, 2012  
Page 2

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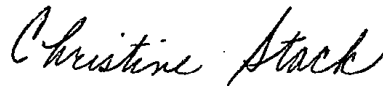
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Or by mail:	Andy Brunt c/o RAMPP 8401 Arlington Boulevard Fairfax, VA 22031

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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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Tim Beck, P.E.  
Ohio DNR  
2046 Morse Road  
Columbus, Ohio 42228

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Beck:

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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Tim Beck, P.E.  
June 29, 2012  
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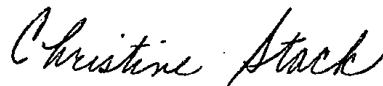
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Randy Keitz  
Ohio DNR  
2207 Reiser Avenue Southeast  
New Philadelphia, Ohio 44663

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Keitz:

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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Randy Keitz  
June 29, 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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Ben Kelley  
Ohio DNR  
2045 Morse Road  
Columbus, Ohio 42227

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Kelley:

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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Ben Kelley  
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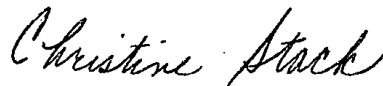
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Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Katherine Skalak  
Ohio DNR  
2045 Morse Road  
Columbus, Ohio 42227

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Skalak:

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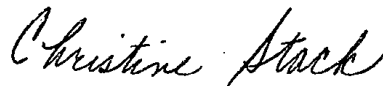
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Mark Cencer  
Natural Resources Engineer  
Ohio DNR Office of Coastal Management  
105 West Shoreline Drive  
Sandusky, Ohio 44870

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Cencer:

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Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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

Mark Cencer  
June 29, 2012  
Page 2

contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

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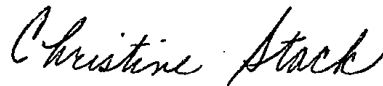
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Call in number:	1-888-330-9552
Code:	1087974

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Via e-mail:	<a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a>
Or by mail:	Andy Brunt c/o RAMPP 8401 Arlington Boulevard Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Frank Lichtkoppler  
Ohio Sea Grant  
1314 Kinnear Road, Area 100  
Columbus, Ohio 43212-1156

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Lichtkoppler:

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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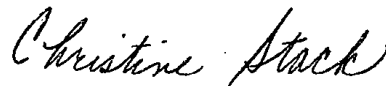
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Steven Ferryman, CFM  
State Hazard Mitigation Officer  
Ohio Emergency Management Agency  
2855 West Dublin-Granville Road  
Columbus, Ohio 43235

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Ferryman:

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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Steven Ferryman, CFM  
June 29, 2012  
Page 2

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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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Greg Mausolf  
Hydraulic Engineer, USACE  
Detroit District  
477 Michigan Avenue  
Detroit, Michigan 48226-2575

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Mausolf:

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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Greg Mausolf  
June 29, 2012  
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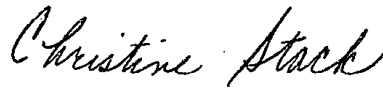
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Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Laura Ortiz  
USACE, Buffalo District  
1776 Niagara Street  
Buffalo, New York 14207

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Ortiz:

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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Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Robert Remmers  
USACE, Buffalo District  
1776 Niagara Street  
Buffalo, New York 14207

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Remmers:

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Robert Remmers  
June 29, 2012  
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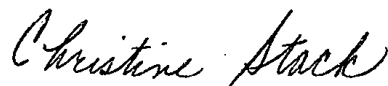
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Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Richard Smith  
Building and Zoning Inspector  
City of Willoughby  
One Public Square  
Willoughby, Ohio 44094

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Smith:

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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Richard Smith  
June 29, 2012  
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contractor (RAMPP) Andy Brunt at (703) 849-0451 or email to [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com) no later than July 13, 2012.

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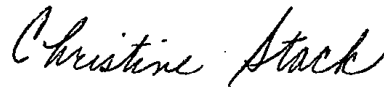
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Call in number:	1-888-330-9552
Code:	1087974

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Via e-mail:	<a href="mailto:LakeErieCoastalFloodStudy@rampp-team.com">LakeErieCoastalFloodStudy@rampp-team.com</a>
Or by mail:	Andy Brunt c/o RAMPP 8401 Arlington Boulevard Fairfax, VA 22031

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

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Christina Znidarsic  
Chagrin River Watershed Coordinator  
P.O. Box 229  
Willoughby, Ohio 44094

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Znidarsic:

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 July 19, 2012  
Time: 2:30 pm – 4:30 pm  
Location: Lake County Emergency Operations Center  
Address: 8505 Garfield Road, Mentor, OH

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Christina Znidarsic  
June 29, 2012  
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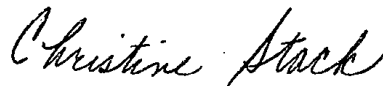
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Dan Donaldson  
District Administrator, Lake SWCD  
125 East Erie Street  
Painesville, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Donaldson:

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Dan Donaldson  
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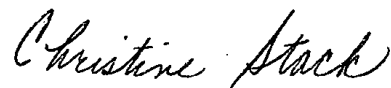
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Sincerely,



Christine Stack  
Division Director  
Mitigation Division, FEMA Region V

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



FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

George Hadden  
Lake County Drainage Engineer  
550 Blackbrook Road  
Painesville, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Mr. Hadden:

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George Hadden  
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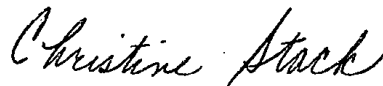
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Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Maurine Orndorff  
Lake County Soil and Water  
Conservation District  
125 East Erie Street  
Painesville, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

Dear Ms. Orndorff:

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Maurine Orndorff  
June 29, 2012  
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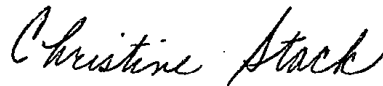
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Division Director  
Mitigation Division, FEMA Region V

Enclosures: Risk MAP Flood Risk Products Fact Sheet  
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FEMA

**RiskMAP**  
Increasing Resilience Together

June 29, 2012

Dave Paponetti  
Manager, Lake County ODOT  
10 Blackbrook Road  
Painesville, Ohio 44077

Re: Invitation to Attend Community Meetings Regarding Lake Erie Coastal Flood Risk

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Dave Paponetti  
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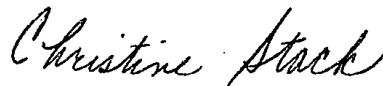
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**RiskMAP**  
Increasing Resilience Together

June 29, 2012

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June 29, 2012  
Page 2

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 Ohio, 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:

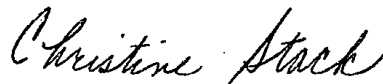
Date: July 12, 2012  
Time: 2:00 pm – 3:00 pm  
Link to WebEx: <https://dewberry.webex.com/dewberry>  
Call in number: 1-888-330-9552  
Code: 1087974

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 13, 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: [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)  
Or by mail: Andy Brunt c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031

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

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# Information Exchange Session for Ashtabula and Lake Counties, Ohio

## Lake Erie Discovery

Ashtabula and Lake Counties  
July 12, 2012  
2:00 pm – 3:00 pm



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## Agenda

- Purpose of this Information Exchange Session
- Overview of Great Lakes Coastal Flood Study
- Overview of Risk MAP, Discovery, and the Community Role
- Discovery Meeting Schedule, Agenda, and Attendees
- Overview of Data Request Form
- Coastal Flood Risk and Mitigation Opportunities



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## Purpose of Information Exchange



- To provide an introduction to the Discovery Process and Great Lakes Flood Study
- To clarify the role of local officials in the Discovery Process
- To help identify community officials who should attend the upcoming Discovery Meeting
- To review the data request form and answer any questions
- To get the group thinking about coastal areas of concern, coastal flood risk, and coastal mitigation in advance of the Discovery Meeting



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## Overview of Great Lakes Coastal Flood Study



- 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 run-up computational approach
  - Updated version of Appendix D.3 (FEMA Guidelines and Standards) will be introduced for comment in May 2012
- 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



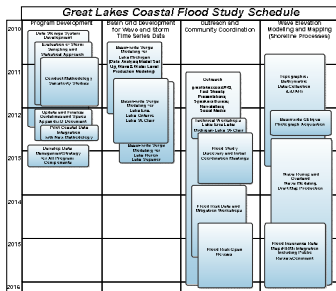
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## Overview of Great Lakes Coastal Flood Study



- FY11 task orders funded 2012 outreach actions along Lake Michigan, Lake St. Clair and Lake Erie
- FY12 contracting processes will fund major production along these same lakes - including wave height computations, draft inundation mapping and significant PMRs
- FY13 contracting will play catch-up on PMRs, and run new production Lakes Superior, Huron



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## Risk MAP Overview



## RiskMAP

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- Five year effort to modernize maps
- Result: digital flood data and digital maps for 92% of population
- Improved flood data quality
- Limited up-front coordination
- Scoping not mandatory
- Collaborative approach
- Goals: quality data, public awareness, action that reduces risk
- Focus on up-front coordination
- Focus on risk mapping, assessment and planning
- Discovery is mandatory



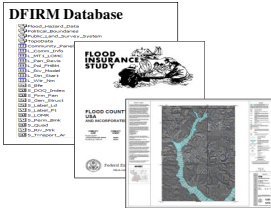
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## Risk MAP Overview: Risk MAP Products

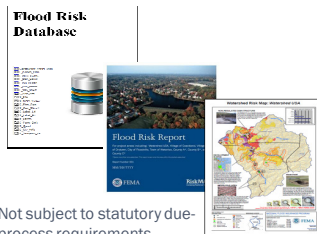


### Traditional Regulatory Products



Subject to statutory due-process requirements

### Non-Regulatory Products



Not subject to statutory due-process requirements

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## Risk MAP Overview: Coastal Products in Development



### Erosion



Example of Slumping  
Source: ODNR Office of Coastal Management

### Lake Levels



Lake Erie Shoreline in Ashtabula Co.  
Source: ODNR Office of Coastal Management

### Shoreline Feature Dataset



Source: ODNR Office of Coastal Management

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## Risk MAP Overview: Shoreline Features Database



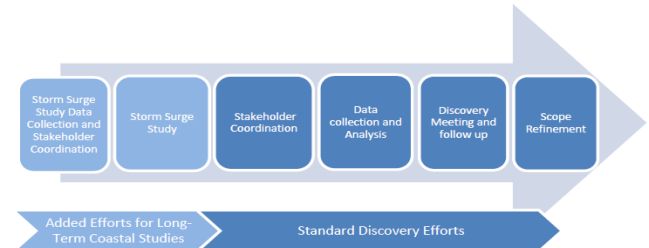
Shoreline Material	Primary Land Use	Primary Coast Type	Primary Vegetation
Sand	High Density Residential	High Dune, 10'+	None
Cohesive	Moderate Density Residential	Dune, 2' - 10'	High Density Shrubs/Trees
Cobble	Low Density Residential	High Bluff, 10'+	Moderate Density Shrubs/Trees
Diamicton*	Commercial/Industrial	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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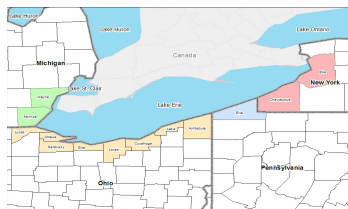
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## Great Lakes Coastal Flood Study Discovery Study Area



### • 13 counties

- |             |              |
|-------------|--------------|
| Ohio        | Michigan     |
| • Ashtabula | • Monroe     |
| • Cuyahoga  | • Wayne      |
| • Erie      | New York     |
| • Lake      | • Chautauqua |
| • Lorain    | • Erie       |
| • Lucas     | Pennsylvania |
| • Ottawa    | • Erie       |
| • Sandusky  |              |



### • 132 coastal communities

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## Great Lakes Coastal Flood Study Discovery Meeting



**Date:** Thursday July 19, 2012  
**Time:** 2:30 pm – 4:30 pm  
**Location:** Lake County Emergency Operations Center  
**Address:** 8505 Garfield Road, Mentor, OH

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Great Lakes Coastal Flood Study  
Discovery Outcomes

FEMA

**Outcome #1 - Encourage community participation**

- Vet transect locations
- Identify reaches requiring special attention
- Document local data sources that will help improve study
- Identify local coastal management issues

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Great Lakes Coastal Flood Study  
Discovery Outcomes

FEMA

**Outcome #2 - Explain study process and timelines**

- High-level – Steps involved in study, and timeline
- Regulatory and non-regulatory products
- NFIP changes – Map revision objectives
- New concepts like LiMWA (Limit of Moderate Wave Action)
- Where to find data and reports

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Great Lakes Coastal Flood Study  
Discovery Outcomes

FEMA

**Outcome #3 - Introduce Mitigation Action Goals**

- Distribute and discuss mitigation action form
- Develop Mitigation strategies and options
  - Land Use Ordinances
  - Local Building Codes
  - Management Best Practices
  - Traditional Hazard Mitigation Projects
  - Community Planning and Programs
- Evaluate opportunities to build storm response erosion data to enhance local planning objectives and processes

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Great Lakes Coastal Flood Study  
Draft Discovery Meeting Agenda

FEMA

- **Why are we here?**
  - Great Lakes Coastal Flood Study Overview and the Discovery Process
  - Great Lakes Coastal Flood Study timeframe
- **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
  - Identification of Existing Local Coastal Data
  - View and Discuss Local Coastal Areas of Concern Using the Discovery Map
  - Discuss Mitigation Action Opportunities and Introduce the Mitigation Action Form
- **Wrap Up**
  - Review of action items and next steps

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Who Should Attend the  
Discovery Meeting?

FEMA

- **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**
- **Coastal Organizations**
- **Other suggestions?**

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Great Lakes Coastal Flood Study  
Discovery Products

FEMA

- **Final Discovery Report**
  - Single, comprehensive report for all of Lake Michigan, with appendices for each coastal community by county
  - 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

Worksheet Name, Worksheet Number  
Cover sheet  
Community names  
Sheet Number-00  
Sheet Number-01  
Sheet Number-02  
Sheet Number-03  
Sheet Number-04  
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## Review of Data Collected To Date

Base Data	Watershed Boundaries	Jurisdictional Boundaries	Tribal lands	State lands	Federal lands	Major roads	Stream flows	Census Blocks	AAL	CMMS	Shoreline Classification
Ashtabula, OH	X	X	X	X	X	X	X	X	X	X	X
Lake, OH	X	X	X	X	X	X	X	X	X	X	X

Structures	Dams	Levees	Mitigation	Mitigation Plan	Mitigation Projects	Public Assistance
	NID Emergency Action Plans	MLI Accreditation status				
Ashtabula, OH	X	X	X	X	X	X
Lake, OH	X	X	X	X	X	X

Historical Data	Declared Disasters	Past flood claims	Repetitive loss properties	Outlier locations	CAV	CRS	Data Sets	Topic data status	Repetitive data status
Ashtabula, OH	X	X	X	X	X	X		X	X
Lake, OH	X	X	X	X	X	X		X	X

## Review of Data Collected To Date

Coastal Related Data	Critically Eroded Beach Area	Coastal Construction Control Line	Coastal Zone Management Area	CBRS	MISC	LOMC Cluster Locations	Stream Gauge Locations	Wave Gauge	Water Level Gages	High Water Marks
Ashtabula, OH	X			N/A	Ashtabula, OH	X	X	X	X	X
Lake, OH	X		X	X	Lake, OH	X	X	X	X	X

Local Data	Areas of recent or planned development	Demographics, Industry	Areas of High Growth	Areas of other natural land changes (e.g., wetlands, marshes, or vernal pools)	Comprehensive Plans	Critical Facilities	Ordinance	Recent land changes (development, wetlands, marshes, etc.)	Known flooding issues not represented on effective FEMA or Flood in Ohio
Ashtabula, OH					X	X	X		
Lake, OH		X			X	X	X		

## 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

## Contact Information

Contact Information	
Community/Organization	
Name:	
Title:	
Address:	
E-mail:	
Phone:	
Contact Preference	<input type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail


## Base Map Information

Base Map Data	Please select available data type	
Topography (e.g., LiDAR or contour data)	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
Property information (e.g., Building footprints, parcel data, tax assessor's data)	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital

## Coastal Data


Coastal Data		
Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
Coastal features (i.e., dunes and bluffs)	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
Shoreline change data	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
Locations of beach nourishment or dune restoration projects	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
Areas of significant beach or dune erosion	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
Mean high water	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital
Mean lake level	<input type="checkbox"/> Hard copy	<input type="checkbox"/> Digital






## Other Data


<i>Other Data</i>		
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>




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## Historical Flood Data


<i>Historical Flood Data</i>		
Are you aware of any coastal flooding issues not represented on effective FIRMs:	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, please explain and provide inundation areas of historic flooding events if available.




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## Risk Assessment


<i>Risk Assessment</i>		
Does your community have HAZUS-based loss estimates from average annualized loss?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, please describe:




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## Flood Mitigation Information


<i>Flood Mitigation Information</i>		
Does your community have a hazard mitigation plan? Does the plan reflect any coastal flood hazards?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, what is the status of the hazard mitigation plan? <input type="checkbox"/> Being reviewed <input type="checkbox"/> It has been adopted <input type="checkbox"/> It is currently being updated <input type="checkbox"/> It is planned for updates
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"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	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. Any specific coastal mitigation projects?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, please describe the projects and their locations:
Does your community have experience with coastal flood disasters and flood disaster recovery?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, please explain:




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## Flood Mitigation Information (cont.)


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?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, please describe and provide the locations of on-going planned/finished grants projects/structures:
How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?	<input type="checkbox"/> <b>high</b> <input type="checkbox"/> <b>medium</b> <input type="checkbox"/> <b>low</b>	




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## Community Plans and Projects


<i>Community Plans and Projects</i>		
Does your community have a comprehensive plan?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan? <input type="checkbox"/> <b>yes</b> <input type="checkbox"/> <b>no</b>
Does your community's comprehensive plan have a special consideration for coastal areas?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, please explain elements regulations that affect coastal area development.
Does your community have a coastal zone management plan?	<input type="checkbox"/> <b>yes</b>  <input type="checkbox"/> <b>no</b>	If yes, please provide a digital or hard copy of the plan.



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



# Mitigation Action Form



**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 accepted or funded with intentions to move to the "Project" 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    HMA Database  
 Comprehensive Land Use Plan    Local Mitigation Plan  
 Capital Improvement Plan    USACE River Jackets  
 Other \_\_\_\_\_

If this Mitigation Action was identified during the RiskMAP Process, please indicate the name of the RiskMAP Project.



# 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 be interested in participating in Discovery Meeting facilitation?

**THANK YOU FOR YOUR PARTICIPATION!**



# Who to Contact



- **Send completed questionnaires to:**
  - Via e-mail:** [LakeErieCoastalFloodStudy@rampp-team.com](mailto:LakeErieCoastalFloodStudy@rampp-team.com)
  - Or by mail:** **Andy Brunt c/o RAMPP**  
**8401 Arlington Boulevard**  
**Fairfax, VA 22031**
- **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)
  - Andy Brunt @ [abrunt@dewberry.com](mailto:abrunt@dewberry.com)



# Questions?



# **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

---



## 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: Andy Brunt, c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031  
Or by fax: 703-849-0648

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

Andy Brunt, ABrunt@Dewberry.com, (703) 849-0451

Contact Information	
Community/Organization	Village of North Kingsville
Name:	Thomas Peters / Mayor McConnell
Title:	Zoning Ins.
Address:	P.O. Box 253 N. Kingsville, Ohio 44065
E-mail:	
Phone:	(440) 224-0703
Contact Preference	<input type="checkbox"/> Email <input type="checkbox"/> Phone <input checked="" type="checkbox"/> Mail



Please check off the types of data you will provide by July 13, 2012.

<b>Base Map Data</b>		<i>Please select available data type</i>	
<input type="checkbox"/>	Topography (e.g., LiDAR or contour data)	<input checked="" 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 checked="" 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 checked="" type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Coastal features (i.e., dunes and bluffs)	<input checked="" type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Shoreline change data	<input checked="" type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Locations of beach nourishment or dune restoration projects	<input checked="" type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Areas of significant beach or dune erosion	<input checked="" type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Mean high water	<input checked="" type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Mean lake level	<input checked="" 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 checked="" 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 checked="" type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input type="checkbox"/>	Other relevant data	<input checked="" type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>



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 <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 <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:





<b>Flood Mitigation Information</b>		
Does your community have a hazard mitigation plan?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, what is the status of the hazard mitigation plan? <input type="checkbox"/> being reviewed <input checked="" type="checkbox"/> it has been adopted <input type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates
Does the plan reflect any coastal flood hazards?	<input type="checkbox"/> yes <input checked="" 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 <input checked="" 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 <input checked="" type="checkbox"/> no	If yes, please describe the projects and their locations:



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<p>Any specific coastal mitigation projects?</p>	<p><input type="checkbox"/> yes <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 type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	<p>If yes, please explain:</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 <input checked="" type="checkbox"/> no</p>	<p>If yes, please explain:</p>



<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<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>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>
<p>How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?</p>	<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 checked="" type="checkbox"/> yes <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? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Does your community's comprehensive plan have a special consideration for coastal areas?	<input checked="" type="checkbox"/> yes <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 checked="" type="checkbox"/> yes <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 <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:



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<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 <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 <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Any other comments/concerns based on local knowledge:</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 type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>
<p>How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?</p>		<input type="checkbox"/> high <input type="checkbox"/> medium <input checked="" type="checkbox"/> low
<p><b>Community Plans and Projects</b></p>		
<p>Does your community have a comprehensive plan?</p>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<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  <input type="checkbox"/> no</p> <p><i>Planning was the part of the mitigation plan.</i></p>
<p>Does your community's comprehensive plan have a special consideration for coastal areas?</p>	<input type="checkbox"/> yes <input type="checkbox"/> no <p>?</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>	<input type="checkbox"/> yes <input type="checkbox"/> no <p>?</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>	<input type="checkbox"/> yes <input type="checkbox"/> no  <p>?</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>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>	<input type="checkbox"/> yes <input type="checkbox"/> no  <p>?</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>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please describe:</p>
<p>Any other comments/concerns based on local knowledge:</p>		





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## 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: Andy Brunt, c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031  
Or by fax: 703-849-0648

RECEIVED  
AUG 21 2012

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

BY:.....

Andy Brunt, ABrunt@Dewberry.com, (703) 849-0451

Contact Information	
Community/Organization	Ohio Department of Natural Resources Office of Coastal Management
Name:	Steve Lewis
Title:	GIS Database Administrator
Address:	105 W. Shoreline Dr. Sandusky OH 44870
E-mail:	steve.lewis@dnr.state.oh.us
Phone:	419-626-7980
Contact Preference	<input type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail



Please check off the types of data you will provide by July 13, 2012.

<b>Base Map Data</b>		<i>Please select available data type</i>	
<input checked="" type="checkbox"/>	Topography (e.g., LiDAR or contour data)	<input type="checkbox"/> <i>Hard copy</i>	<input checked="" 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>			
<input checked="" type="checkbox"/>	Coastal structures (e.g., seawalls, levees, jetties, groins, etc.) <i>Permit data (PDF)</i>	<input checked="" type="checkbox"/> <i>Hard copy</i>	<input checked="" type="checkbox"/> <i>Digital</i>
DGS	Coastal features (i.e., dunes and bluffs)	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
DGS	Shoreline change data	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
<input checked="" type="checkbox"/>	Locations of beach nourishment or dune restoration projects <i>Permit PDF's</i>	<input checked="" type="checkbox"/> <i>Hard copy</i>	<input checked="" type="checkbox"/> <i>Digital</i>
DGS	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>			
DSWR	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 checked="" type="checkbox"/> <i>Digital</i>
	Other relevant data	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>

DGS = ODNR Division of Geological Survey, Columbus, OH  
 DSWR = ODNR Division of Soil and Water Resources, Cos, OH



*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 <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 <input type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please describe:



<b>Flood Mitigation Information</b>		
Does your community have a hazard mitigation plan?	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, what is the status of the hazard mitigation plan? <input type="checkbox"/> being reviewed <input type="checkbox"/> it has been adopted <input type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates
Does the plan reflect any coastal flood hazards?	<input type="checkbox"/> yes <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 <input type="checkbox"/> no	If yes, please explain:
Does your community have ongoing mitigation projects, such as acquisition, elevation, flood control, soil stabilization, natural systems restoration, floodproofing, etc.	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please describe the projects and their locations:



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Any specific coastal mitigation projects?	<input type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain:
Does your community have experience with coastal flood disasters and flood disaster recovery?	<input type="checkbox"/> yes <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 <input type="checkbox"/> no	If yes, please explain:



<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<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>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>
<p>How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?</p>	<input type="checkbox"/> high <input type="checkbox"/> medium <input type="checkbox"/> low	





<b><i>Community Plans and Projects</i></b>		
<p>Does your community have a comprehensive plan?</p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?</p> <input type="checkbox"/> yes <input type="checkbox"/> no
<p>Does your community's comprehensive plan have a special consideration for coastal areas?</p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please explain elements/regulations that affect coastal area development.</p>
<p>Does your community have a coastal zone management plan?</p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<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>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:</p>



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<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 <input 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 <input type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Any other comments/concerns based on local knowledge:</p>		





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## 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: Andy Brunt, c/o RAMPP  
8401 Arlington Boulevard  
Fairfax, VA 22031  
Or by fax: 703-849-0648

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

Andy Brunt, [ABrunt@Dewberry.com](mailto:ABrunt@Dewberry.com), (703) 849-0451

<b>Contact Information</b>	
Community/Organization	CITY OF MENTOR
Name:	JAMES E. DECKER, JR, PE
Title:	PLANS EXAMINER, FLOODPLAIN ADMINISTRATOR
Address:	8500 CIVIC CENTER BLVD. MENTOR, OHIO 44060
E-mail:	DECKER@CITYOFMENTOR.COM
Phone:	440-974-5785
Contact Preference	<input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail



Please check off the types of data you will provide by July 13, 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 checked="" type="checkbox"/>	Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)	<input checked="" 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>



*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 <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 <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:



<b>Flood Mitigation Information</b>		
<p>Does your community have a hazard mitigation plan?</p> <p><i>COUNTY LEVEL!</i></p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, what is the status of the hazard mitigation plan?</p> <input type="checkbox"/> being reviewed <input type="checkbox"/> it has been adopted <input type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates
<p>Does the plan reflect any coastal flood hazards?</p>	<input type="checkbox"/> yes <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 <input 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 <input checked="" type="checkbox"/> no	<p>If yes, please describe the projects and their locations:</p>



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Any specific coastal mitigation projects?	<input type="checkbox"/> yes <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 <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 <input checked="" type="checkbox"/> no	If yes, please explain:



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<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<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>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p> <p><i>REMOVED MENTOR APPLIED FOR BUT DID NOT RECEIVE HMAG AFTER JULY 2006 FLOOD.</i></p>
<p>How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?</p>	<input checked="" type="checkbox"/> high <input type="checkbox"/> medium <input type="checkbox"/> low	





### Community Plans and Projects

<p>Does your community have a comprehensive plan?</p>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<p>If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?</p> <input type="checkbox"/> yes <input type="checkbox"/> no
<p>Does your community's comprehensive plan have a special consideration for coastal areas?</p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please explain elements/regulations that affect coastal area development.</p> <p>STEED SLOPE          STREAM VALLEY PROTECTION          BALANCED GROWTH          MONTICELLO MARSH SPECIAL AREA MANAGEMENT PLAN          SAM P</p>
<p>Does your community have a coastal zone management plan?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<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>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:</p> <p>PLANNING COMMISSION APPROVAL FOR STREAM ENCROACHMENTS          FLOODPLAIN REGULATIONS          BZA FOR FLOOD REGULATION APPEALS</p>



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<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 <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 <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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Please check off the types of data you will provide by July 13, 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 checked="" type="checkbox"/>	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>
<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>

County To provide all information above not indicated



Please provide the following information about the community:

**Historical Flood Data**

Are you aware of any coastal flooding issues not represented on effective FIRMs:

- yes
- no

If yes, please explain and provide inundation areas of historic flooding events if available.

**Risk Assessment**

Does your community have HAZUS-based loss estimates from average annualized loss?

- yes
- no

If yes, please describe:

Does your community have other risk assessment data?

- yes
- no

If yes, please describe:



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<b>Flood Mitigation Information</b>		
<p>Does your community have a hazard mitigation plan?</p> <p><i>check w/ county</i></p>	<p><input type="checkbox"/> yes</p> <p><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</p> <p><input type="checkbox"/> it has been adopted</p> <p><input type="checkbox"/> it is currently being updated</p> <p><input type="checkbox"/> it is planned for updates</p>
<p>Does the plan reflect any coastal flood hazards?</p>	<p><input type="checkbox"/> yes</p> <p><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</p> <p><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</p> <p><input checked="" type="checkbox"/> no</p>	<p>If yes, please describe the projects and their locations:</p>



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Any specific coastal mitigation projects?	<input type="checkbox"/> yes <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 <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 <input checked="" type="checkbox"/> no	If yes, please explain:



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<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 <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 <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 <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>
<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>	



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<i>Community Plans and Projects</i>		
Does your community have a comprehensive plan?	<input type="checkbox"/> yes <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?  <input type="checkbox"/> yes  <input type="checkbox"/> no
Does your community's comprehensive plan have a special consideration for coastal areas?	<input type="checkbox"/> yes <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 <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 <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:  <i>ORDINANCE 1367</i> <i>Building Code Res + Com</i>



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<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 <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 <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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## 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: Andy Brunt, c/o RAMPP  
 8401 Arlington Boulevard  
 Fairfax, VA 22031  
 Or by fax: 703-849-0648

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

Andy Brunt, ABrunt@Dewberry.com, (703) 849-0451

<b>Contact Information</b>	
Community/Organization	CITY OF MENTOR
Name:	JAMES E. DECKER, JR, PE
Title:	PLANS EXAMINER, FLOODPLAIN ADMINISTRATOR
Address:	8500 CIVIC CENTER BLVD. MENTOR, OHIO 44060
E-mail:	DECKER@CITYOFMENTOR.COM
Phone:	440-974-5785
Contact Preference	<input checked="" type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mail





Please check off the types of data you will provide by July 13, 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 checked="" type="checkbox"/>	Coastal structures (e.g., seawalls, levees, jetties, groins, etc.)	<input checked="" 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>



*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 <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 <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:



### Flood Mitigation Information

<p>Does your community have a hazard mitigation plan?</p> <p><i>COUNTY LEVEL?</i></p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, what is the status of the hazard mitigation plan?</p> <input type="checkbox"/> being reviewed <input type="checkbox"/> it has been adopted <input type="checkbox"/> it is currently being updated <input type="checkbox"/> it is planned for updates
<p>Does the plan reflect any coastal flood hazards?</p>	<input type="checkbox"/> yes <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 <input type="checkbox"/> no	<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>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please describe the projects and their locations:</p>



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Any specific coastal mitigation projects?	<input type="checkbox"/> yes <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 <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 <input checked="" type="checkbox"/> no	If yes, please explain:



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<p>Have you had any prior proactive mitigation actions and planning efforts that resulted in reduced losses? If possible, any coastal specific?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<p>If yes, please describe:</p>
<p>Has your community applied and granted Individual Assistance/Public Assistance grants for declared disasters?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<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>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p> <p><i>REMOVED MENTOR APPLIED FOR BUT DID NOT RECEIVE HMAG AFTER JULY 2006 FLOOD.</i></p>
<p>How would you rank the community's ability to implement mitigation actions and to communicate flood risk to citizens?</p>	<input checked="" type="checkbox"/> high <input type="checkbox"/> medium <input type="checkbox"/> low	



### Community Plans and Projects

<p>Does your community have a comprehensive plan?</p>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<p>If you answered yes and you have a hazard mitigation plan, was your hazard mitigation plan coordinated with the comprehensive plan?</p> <input type="checkbox"/> yes <input type="checkbox"/> no
<p>Does your community's comprehensive plan have a special consideration for coastal areas?</p>	<input type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please explain elements/regulations that affect coastal area development.</p> <p>STEEP SLOPE          STREAM VALLEY PROTECTION          BALANCED GROWTH          MONTICELLO MARSH SPECIAL AREA MANAGEMENT PLAN          SAMP</p>
<p>Does your community have a coastal zone management plan?</p>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<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>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<p>If yes, please explain this group's role in floodplain management and provide examples of the types of programs in place:</p> <p>PLANNING COMMISSION APPROVAL FOR STREAM ENCROACHMENTS          FLOODPLAIN REGULATIONS          BZA FOR FLOOD REGULATION APPROVALS</p>



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<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 <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 <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe:</p>
<p>Any other comments/concerns based on local knowledge:</p>		





Please check off the types of data you will provide by July 13, 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 checked="" type="checkbox"/>	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>
<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>

County To provide all information above NOT indicated





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 <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 <input checked="" type="checkbox"/> no	If yes, please describe:
Does your community have other risk assessment data?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	If yes, please describe:



<b>Flood Mitigation Information</b>		
<p>Does your community have a hazard mitigation plan?</p> <p><i>check w/ county</i></p>	<p><input type="checkbox"/> yes</p> <p><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</p> <p><input type="checkbox"/> it has been adopted</p> <p><input type="checkbox"/> it is currently being updated</p> <p><input type="checkbox"/> it is planned for updates</p>
<p>Does the plan reflect any coastal flood hazards?</p>	<p><input type="checkbox"/> yes</p> <p><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</p> <p><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</p> <p><input checked="" type="checkbox"/> no</p>	<p>If yes, please describe the projects and their locations:</p>



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Any specific coastal mitigation projects?	<input type="checkbox"/> yes <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 <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 <input checked="" type="checkbox"/> no	If yes, please explain:



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<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 <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 <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 <input checked="" type="checkbox"/> no</p>	<p>If yes, please describe and provide the locations of on-going/planned/finished grants projects/structures:</p>
<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>



<i>Community Plans and Projects</i>		
Does your community have a comprehensive plan?	<input type="checkbox"/> yes <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?  <input type="checkbox"/> yes <input type="checkbox"/> no
Does your community's comprehensive plan have a special consideration for coastal areas?	<input type="checkbox"/> yes <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 <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 <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:  <i>ORDINANCE 1367</i> <i>Building Code Res + Com</i>



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<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 <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 <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>
City of Mentor	Lake	OH	Operation and Maintenance Manual Emergency Flood Protection Advance Measures, Report in PDF
City of Mentor	Lake	OH	Willowbrook Drive Storm Sewer Outflow Plan & Profile, Report in PDF
City of Mentor	Lake	OH	Armor Stone Revetment Rehabilitation at City of Mentor Lagoons Reservation & Marina Plans, Report in PDF
City of Mentor	Lake	OH	Mentor Lagoons Emergency West Beach Erosion Maintenance Plans,, Report in PDF



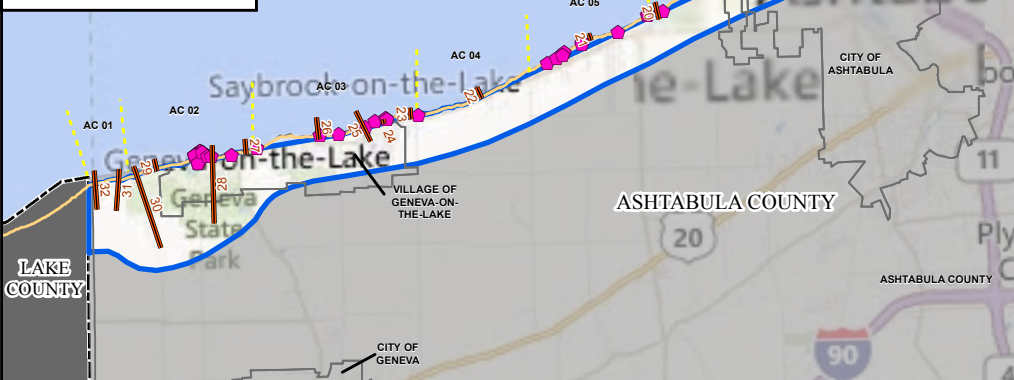
# **Attachment C: Discovery Maps**

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### Coastal Structures and Transects

#### Lake Erie Shore Erosion Management Plan

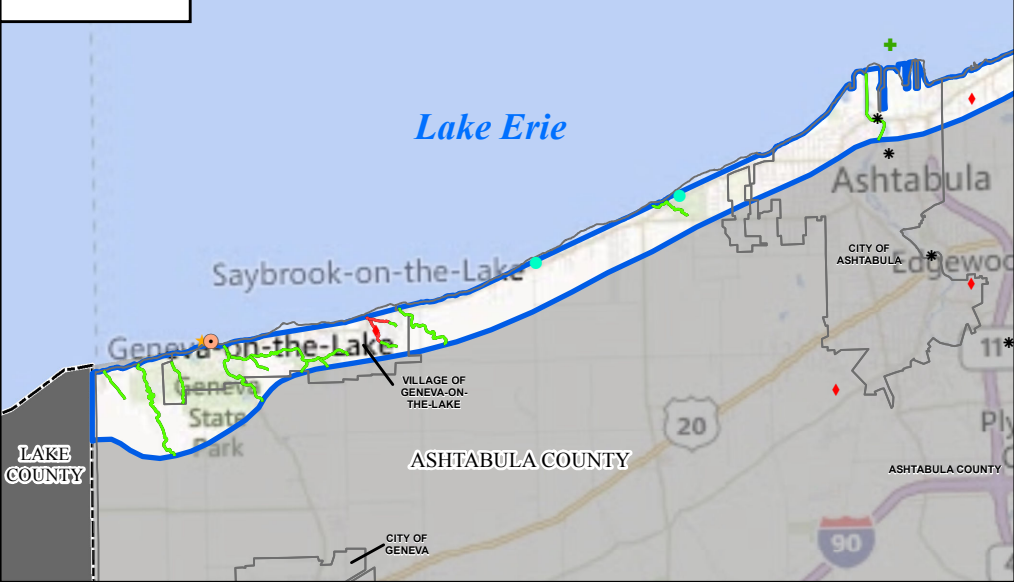
- Reach Legend  
 AC 01- County Line to Geneva State Park  
 AC 02- Geneva State Park  
 AC 03- Geneva State Park to Myers Road  
 AC 04- Myers Road to Ninevah Road  
 AC 05- Ninevah Road to Red Brook  
 AC 06- Red Brook to Ashtabula Harbor  
 AC 07- Ashtabula Harbor  
 AC 08- Ashtabula Harbor to State Route 193



### Average Annualized Loss and CBRS\* Data



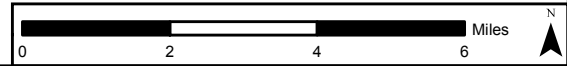
### CNMS\*\* Status



NFIP Total Losses					
Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Ashtabula County	88	74	0	14	1,232,930
Ashtabula, City of	2	2	0	0	13,390
Conneaut, City of	13	8	0	5	250,280
Geneva-on-the-Lake, Village of	5	2	0	3	24,000
North Kingsville, Village of	1	0	0	1	0

Declared Disasters					
State	Date	County	Type	Incident Type	Title
OH	07/19/1972	Ashtabula	DR	Flood	Tropical Storm Agnes
OH	04/27/1973	Ashtabula	DR	Flood	Severe Storms & Flood
OH	09/19/2004	Ashtabula	DR	Severe Storm	Severe Storms & Flood
OH	08/01/2006	Ashtabula	DR	Severe Storm	Severe Storms, Straight Line Winds

Hazard Mitigation Action			
Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action
Ashtabula County - Countywide All Natural Hazards Mitigation Plan	07/03/2007	07/03/2012	According to Ashtabula County EMA, no property protection measures enacted in Ashtabula County.



### MAP SYMBOLOLOGY

<ul style="list-style-type: none"> <li>Dam</li> <li>LOMC</li> <li>Transect</li> <li>Shoreline</li> <li>HUC 8</li> <li>CBRS*</li> <li>Discovery Study Area</li> <li>Surrounding County</li> <li>Municipal Boundary</li> </ul>	<ul style="list-style-type: none"> <li>USGS Gage</li> <li>Port</li> <li>Coastal Structure</li> <li>Wave Gage</li> <li>Weather Station</li> <li>LESEMP<sup>1</sup></li> </ul>	<p><b>ASHTABULA COUNTY (AAL) DATA</b> 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>
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### COASTAL STUDY LOCATOR



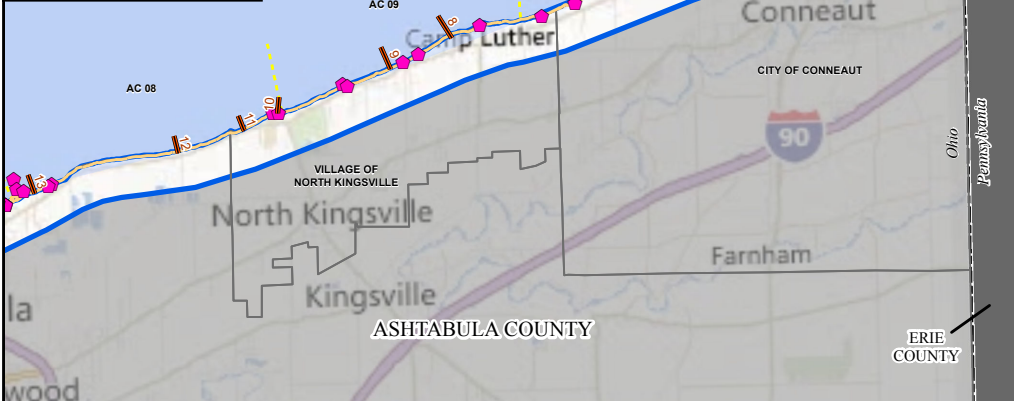
## NATIONAL FLOOD INSURANCE PROGRAM Final Discovery Map

### LAKE ERIE COASTAL STUDY Ashtabula County, Ohio (Map 1 of 2)

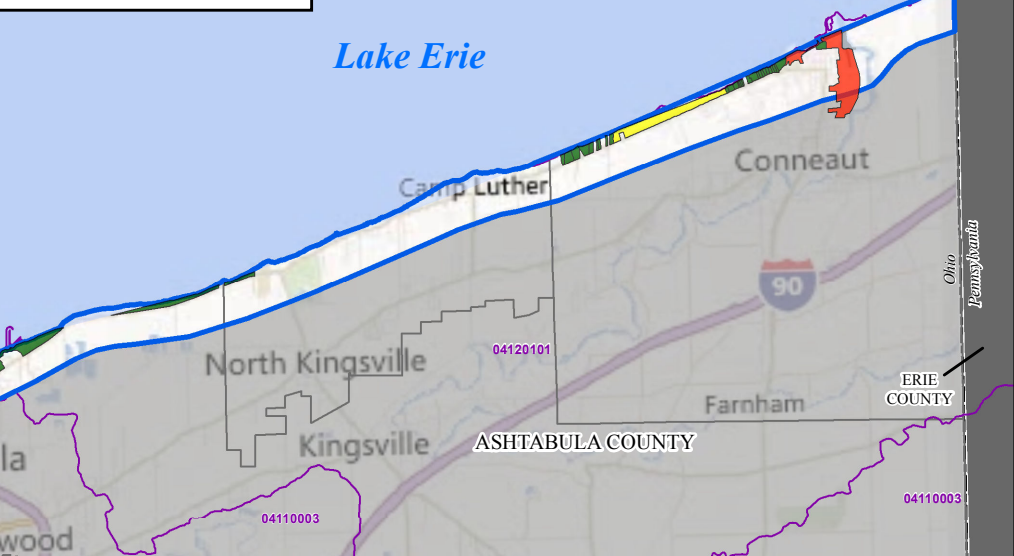
Ashtabula County  
 Ashtabula, City of  
 Conneaut, City of  
 Geneva-on-the-Lake, Village of  
 North Kingsville, Village of

### Coastal Structures and Transects

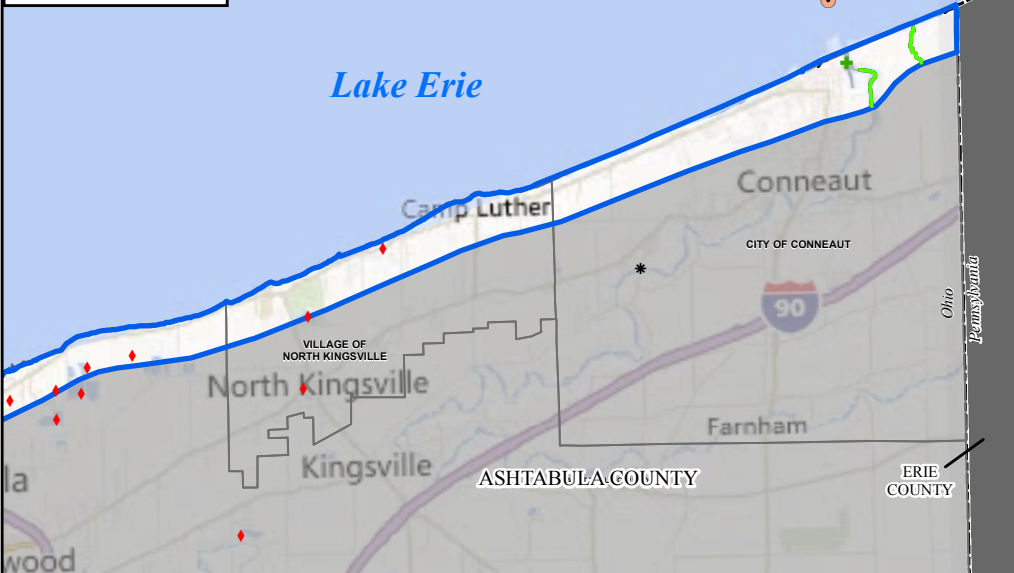
**Lake Erie Shore Erosion Management Plan Reach Legend**  
 AC 08- Ashtabula Harbor to State Route 193  
 AC 09- State Route 193 to Pennsylvania Avenue  
 AC 10- Pennsylvania Avenue to Conneaut Harbor  
 AC 11- Conneaut Harbor  
 AC 12- Conneaut Harbor to State Line



### Average Annualized Loss and CBRS\* Data



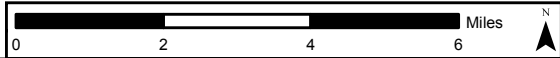
### CNMS\*\* Status



NFIP Total Losses					
Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Ashtabula County	88	74	0	14	1,232,930
Ashtabula, City of	2	2	0	0	13,390
Conneaut, City of	13	8	0	5	250,280
Geneva-on-the-Lake, Village of	5	2	0	3	24,000
North Kingsville, Village of	1	0	0	1	0

Declared Disasters					
State	Date	County	Type	Incident Type	Title
OH	07/19/1972	Ashtabula	DR	Flood	Tropical Storm Agnes
OH	04/27/1973	Ashtabula	DR	Flood	Severe Storms & Flood
OH	09/19/2004	Ashtabula	DR	Severe Storm	Severe Storms & Flood
OH	08/01/2006	Ashtabula	DR	Severe Storm	Severe Storms, Straight Line Winds

Hazard Mitigation Action			
Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action
Ashtabula County - Countywide All Natural Hazards Mitigation Plan	07/03/2007	07/03/2012	According to Ashtabula County EMA, no property protection measures enacted in Ashtabula County.



### MAP SYMOLOGY

**Legend**

- ◆ Dam
- ◆ LOMC
- Transect
- Shoreline
- HUC 8
- CBRS\*
- Discovery Study Area
- Surrounding County
- Municipal Boundary

**ASHTABULA 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

\* CBRS - Coastal Barrier Resources System  
 \*\* CNMS - Coordinated Needs Management Strategy  
 † LESEMP - Lake Erie Shore Erosion Management Plan

### COASTAL STUDY LOCATOR



## NATIONAL FLOOD INSURANCE PROGRAM

### Final Discovery Map

## LAKE ERIE COASTAL STUDY

Ashtabula County, Ohio (Map 2 of 2)

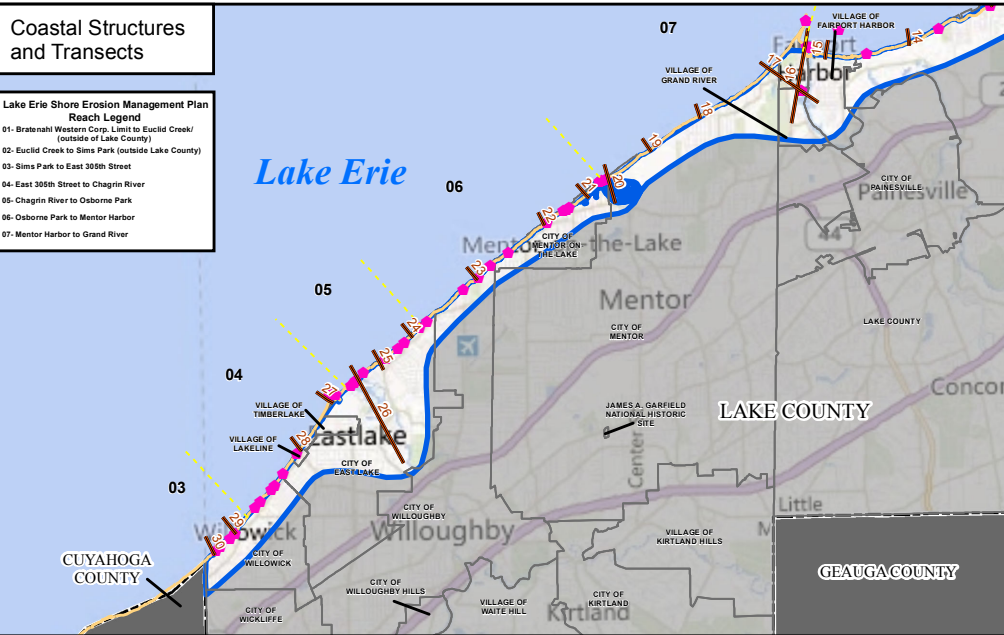
Ashtabula County    Geneva-on-the-Lake, Village of  
 Ashtabula, City of    North Kingsville, Village of  
 Conneaut, City of

Discovery Map Date: March 29, 2013

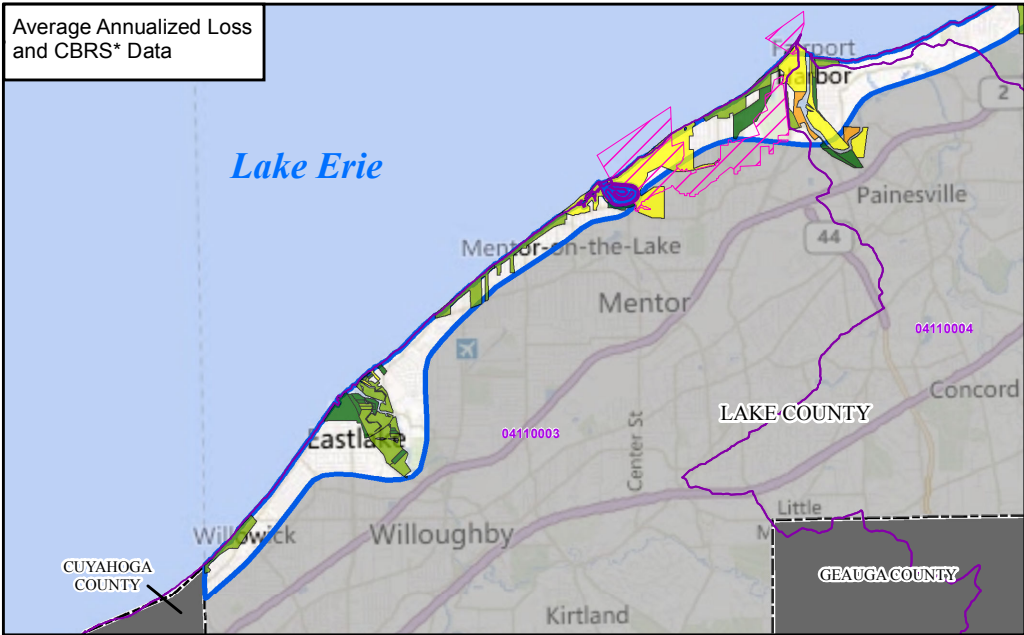


### Coastal Structures and Transects

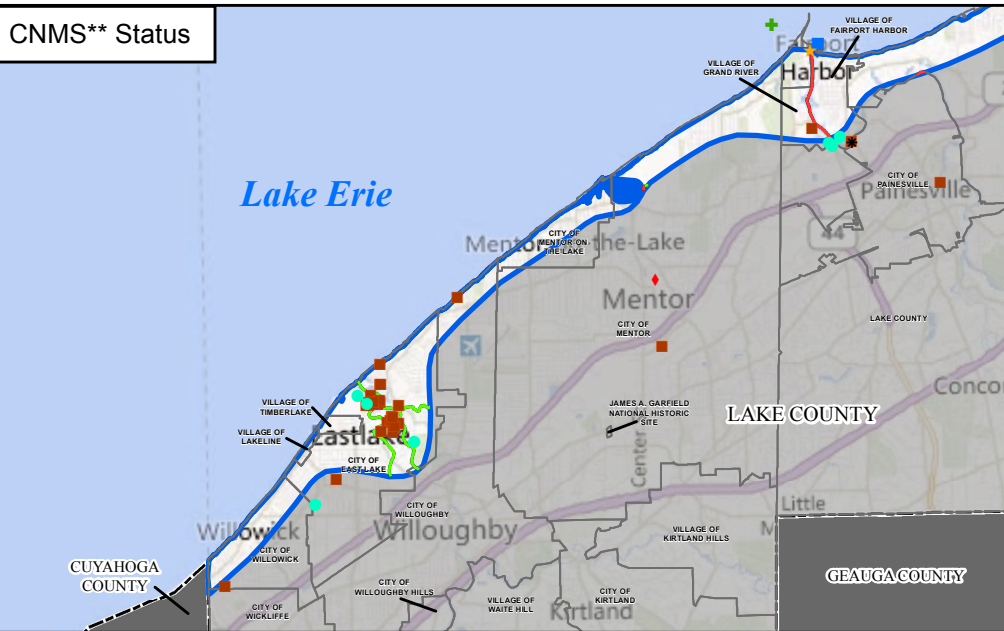
- Lake Erie Shore Erosion Management Plan Reach Legend**
- 01- Bratenahl Western Corp. Limit to Euclid Creek/ (outside of Lake County)
  - 02- Euclid Creek to Sims Park (outside Lake County)
  - 03- Sims Park to East 306th Street
  - 04- East 306th Street to Chagrin River
  - 05- Chagrin River to Osborne Park
  - 06- Osborne Park to Mentor Harbor
  - 07- Mentor Harbor to Grand River



### Average Annualized Loss and CBRS\* Data



### CNMS\*\* Status

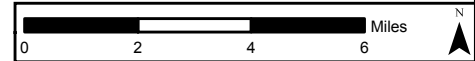


Community*	NFIP Total Losses				Total Payments (\$)
	Total Losses	Closed Losses	Open Losses	CWOP Losses	
Lake County	106	83	0	23	1,235,936
Eastlake, City of	299	230	0	69	1,961,507
Grand River, Village of	12	10	0	2	133,883
Mentor, City of	48	25	0	23	263,821
Willoughby, City of	56	37	0	19	552,604
Willowick, City of	15	9	0	6	62,143

\*The City of Mentor-on-the-Lake and the Villages of Fairport Harbor, Lakeline, North Perry and Timberlake do not have any Flood Insurance policies. Therefore, they do not have any NFIP losses and are not included in this table.

Declared Disasters					
State	Date	County	Type	Incident Type	Title
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OH	04/27/1973	Lake	DR	Flood	Severe Storms & Flood
OH	09/11/1975	Lake	DR	Flood	Winds, Tornadoes, Heavy Rains & Flood
OH	06/01/1989	Lake	DR	Flood	Severe Storms & Flood
OH	09/19/2004	Lake	DR	Flood	Severe Storms & Flood
OH	08/01/2006	Lake	DR	Flood	Severe Storms, Straight Line Wind & Flood

Hazard Mitigation Action				
Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action	Community
Lake County Multi-Jurisdictional Hazard Mitigation Plan	12/23/2010	12/23/2015	Clean creeks and streams, increasing storm drainage systems capacity, enforce building codes, implementation of buy-outs, elevation or relocation, and participation in the CRS.	Lake County, Fairport Harbor, Village of Grand River, Village of Mentor, City of Mentor-On-the-Lake, Village of North Perry, Village of
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### MAP SYMBOLOLOGY

<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>◆ Dam</li> <li>● LOMC</li> <li>— Transect</li> <li>— Lake Erie Shoreline (HUC 8)</li> <li>— Coastal Structure</li> <li>— CBRS* Areas</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>★ Wave Gage</li> <li>● Port</li> <li>★ USGS Gage</li> <li>★ Repetitive Loss</li> <li>★ NOAA Water Level Station</li> <li>★ Coastal Structure</li> <li>★ LESEMP<sup>†</sup></li> </ul>	<p><b>LAKE COUNTY AAL DATA</b> 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>
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### COASTAL STUDY LOCATOR



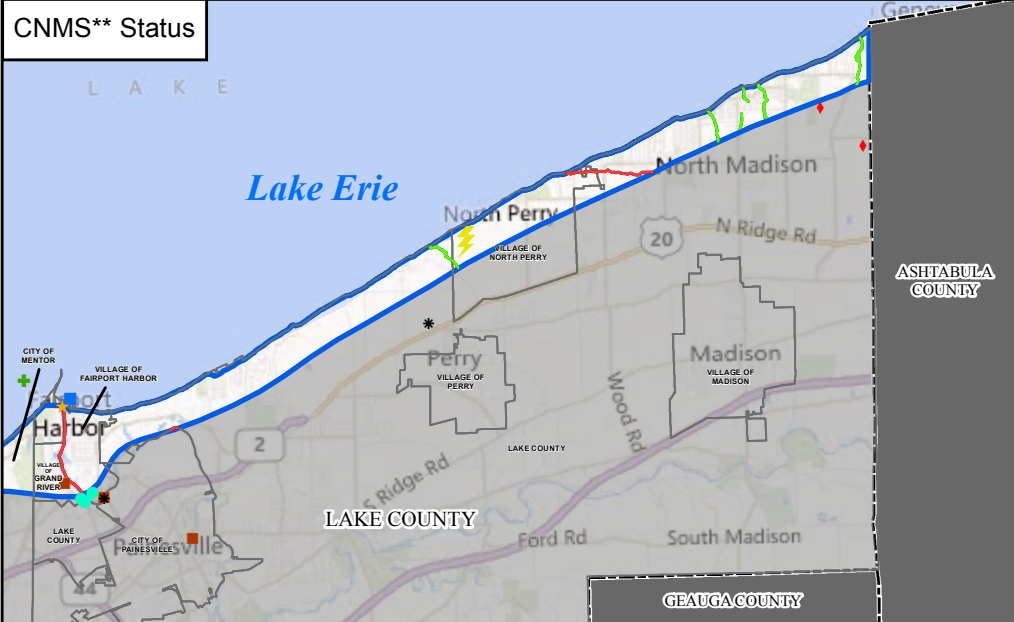
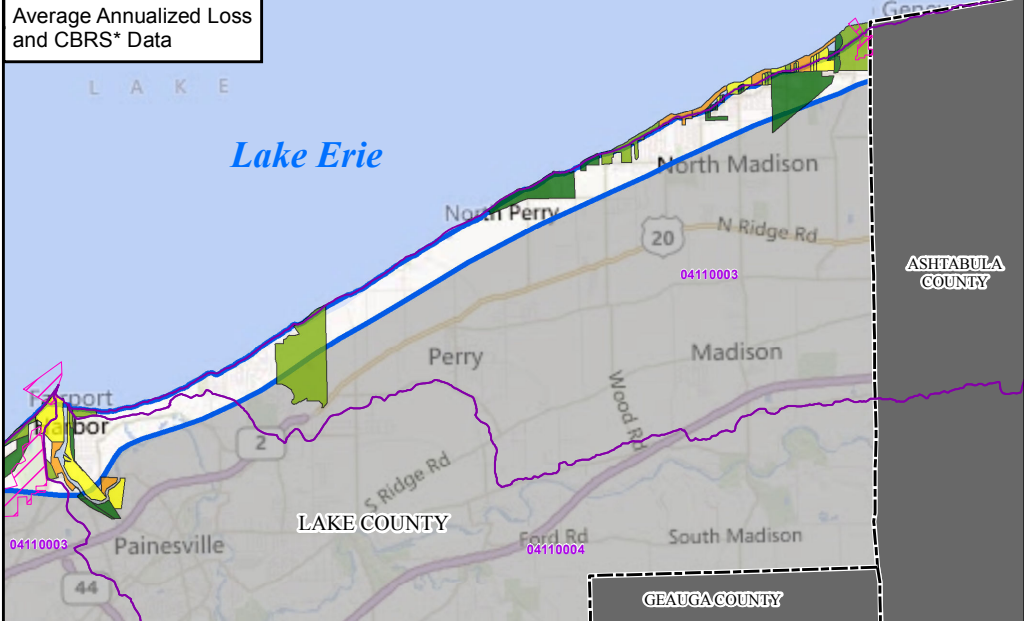
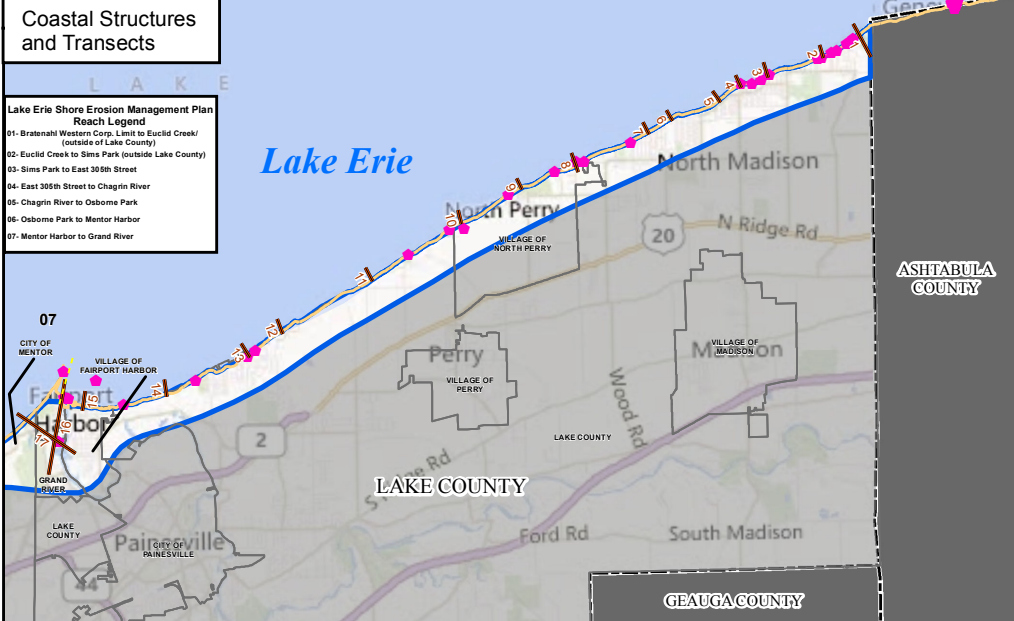
## NATIONAL FLOOD INSURANCE PROGRAM Final Discovery Map

### LAKE ERIE COASTAL STUDY Lake County, Ohio (Map 1 of 2)

Lake County, Ohio  
Mentor-on-the-Lake, City of  
Eastlake, City of  
Fairport Harbor, Village of  
Grand River, Village of  
Lakeline, Village of  
Mentor, City of  
North Perry, Village of  
Timberlake, Village of  
Willoughby, City of  
Willowick, City of



Discovery Map Date:  
March 29, 2013



NFIP Total Losses					
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Lake County Multi-Jurisdictional Hazard Mitigation Plan	07/15/2011	12/23/2015	Clean creeks and streams, increasing storm drainage systems capacity, enforce building codes, implementation of buy-outs, elevation or relocation, and participation in the CRS.	Eastlake, City of Timberlake, Village of Willoughby, City of Willowick, City of

0 2 4 6 Miles

### MAP SYMBOLOGY

**LEGEND**

- ◆ Dam
- LOMC
- Transect
- Lake Erie Shoreline (HUC 8)
- CBRS\* Areas
- Discovery Study Area
- Surrounding County
- County Boundary
- Municipal Boundary
- + Wave Gage
- + Port
- ⚡ Perry Nuclear Power Plant
- \* USGS Gage
- Repetitive Loss
- NOAA Water Level Station
- Coastal Structure
- LESEMP

**LAKE COUNTY AAL DATA**  
Total Average Annualized Loss per Census Block

- \$1 - \$2,500
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### COASTAL STUDY LOCATOR



## NATIONAL FLOOD INSURANCE PROGRAM

### Final Discovery Map

## LAKE ERIE COASTAL STUDY

### Lake County, Ohio (Map 2 of 2)

Lake County, Mentor-on-the-Lake, City of Eastlake, City of North Perry, Village of Fairport Harbor, Village of Timberlake, Village of Grand River, Village of Willoughby, City of Lakeside, Village of Willowick, City of Mentor, City of

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

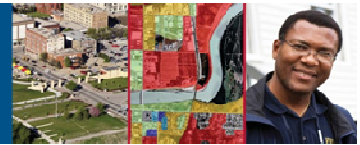
Attachment D-7: Community Risk MAP Questionnaire Forms

Attachment D-8: 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>	Ashtabula and Lake County, OH Great Lakes Coastal Discovery Meeting
<b>Date and Time:</b>	Thursday July 19, 2012 2:30 PM to 4:30 PM
<b>Place:</b>	Lake County Emergency Operations Center 8505 Garfield Road, Mentor, OH
<b>Facilitator:</b>	Mike Hanke (FEMA) and Amelia Vincent (RAMPP)

## Discovery Meeting Agenda

### 1. Why are we here? (20 minutes)

- Great Lakes Coastal Flood Study Overview and the Discovery Process
- Great Lakes Coastal Flood Study timeframe

### 2. Coastal mapping and flood risk topics to be aware of (30 minutes)

### 3. How does this apply to my community? (20 minutes)

- NFIP compliance, hazard mitigation opportunities, and grant funding

### 4. Interactive Session (40 minutes)

- Utilization of Coastal Flood Risk Products for Planning and Mitigation
- Identification of Existing Local Coastal Data
- View and Discuss Local Coastal Areas of Concern Using the Discovery Map
- Discuss Mitigation Action Opportunities and Introduce the Mitigation Action Form
- SHARPP

### 5. 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 and State 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

## Ashtabula and Lake County, OH

July 19, 2012  
2:30 pm to 4:30 pm

Lake County EOC  
Mentor, OH



Fairport Harbor, Lakefront Park

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Great Lakes Coastal Flood Study  
greatlakescoast.org

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## Introductions

### Who's here?

- State Representatives**
  - ODNR
  - OEMA
- Federal Representatives**
  - USACE
- Risk MAP Project Team**
  - FEMA
  - RAMPP
- Local Stakeholders**
  - CEOs
  - Floodplain Administrators
  - Planners
  - Engineers
  - Emergency Managers
  - Community Leaders
  - Regional Planning Agencies
  - Coastal Organizations

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greatlakescoast.org

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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?**
  - NFIP compliance, hazard mitigation, emergency management, and grant funding
- Interactive Sessions**
  - 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/SHARPP
- Wrap Up**
- Optional Interactive Stations**

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## The Paradigm Shift: Map Mod to Risk MAP

- Map Modernization used increasingly-available technology to increase the quality, reliability, and availability of flood hazard maps and data
- It focused on digitizing maps to provide timely, accurate information to community planners

Risk MAP further enhances the maps, involves communities during the assessment and planning stages, and guides and encourages them to communicate risk to their constituents



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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



RiskMAP Increasing Resilience Together

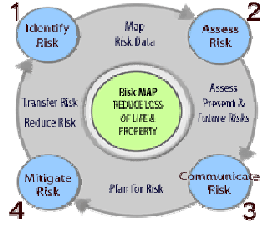
Great Lakes Coastal Flood Study  
greatlakescoast.org

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## Risk Mapping, Assessment and Planning

### Risk MAP

- Increases public awareness leading to actions reducing risk to life and property
- Goals:
  - Flood Hazard Data
  - Public Awareness & Outreach
  - Hazard Mitigation Planning
  - Enhanced Digital Platform
  - Alignment & Synergies



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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**

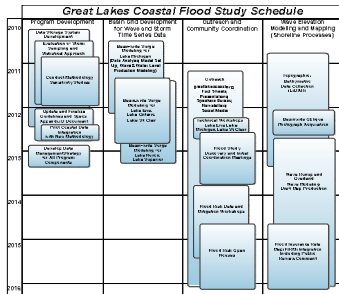
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# Great Lakes Coastal Flood Study Status and Schedule



- FY11 task orders funded 2012 outreach actions along Lake Erie
- FY12 contracting processes will fund major production along Lake Erie including wave height computations, draft inundation mapping and PMRs
- FY13 contracting will play catch-up on PMRs



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# Lake Erie Discovery



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



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greatlakescoast.org

# Discovery Meeting Objectives

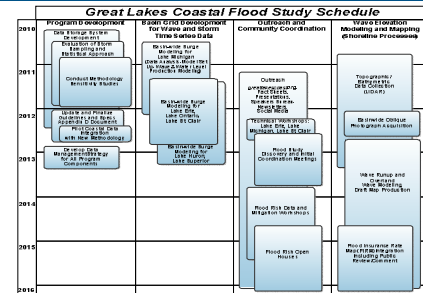


- Continue and expand upon stakeholder engagement
- Discuss data inputs from Federal, state and local
- Identify local coastal flood hazard needs and areas of concerns
- Identify products and datasets that best advance coastal mitigation action
- NFIP regulatory updates
- Discovery schedule and deliverables

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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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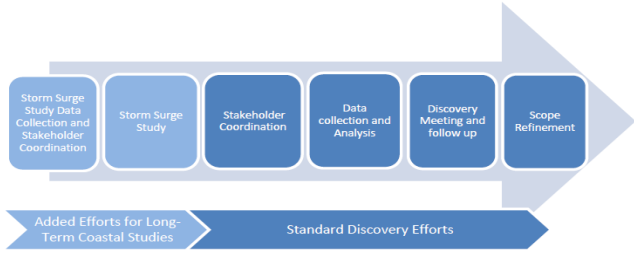



Great Lakes  
Coastal Flood Study  
[greatlakescoast.org](http://greatlakescoast.org)




## Discovery Schedule Overview








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Coastal Flood Study  
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## 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 coastal community by county
  - 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**

Worksheet Name, Worksheet Number  
County names  
Report Number 00  
MMDDYYYY







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Coastal Flood Study  
[greatlakescoast.org](http://greatlakescoast.org)




## Discovery Outcomes




### 1. Encourage community participation


- Vet transect locations
- Identify reaches requiring special attention
- Document local data sources that will help improve study
- Identify local coastal management issues




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Coastal Flood Study  
[greatlakescoast.org](http://greatlakescoast.org)




## Discovery Outcomes




### 2. Explain study process and timelines


- High-level - Steps involved in study and timeline
- Regulatory and non-regulatory products
- NFIP changes - Map revision objectives
- New concepts - LiMWA
- Where to find data and reports



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Great Lakes  
Coastal Flood Study  
[greatlakescoast.org](http://greatlakescoast.org)






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## Discovery Outcomes

### 3. Introduce Mitigation Action Goals

- Distribute and discuss mitigation action form
- Develop Mitigation strategies and options
  - Land Use Ordinances
  - Local Building Codes
  - Management Best Practices
  - Traditional HM Projects
  - Community Planning and Programs
- Evaluate opportunities to build storm response erosion data to enhance local planning objectives and processes



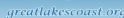




FEMA

## Data Collected

- Topographic – Light Detection and Ranging (LIDAR) from OSIP
- Bathymetry Data\* – NOAA National Geophysical Data Center
- Base data – boundaries, streams, census blocks, etc.
- Average Annualized Loss data
- Shoreline classification
- Dams
- Federal and State disaster information
- Repetitive loss data
- Mitigation plans
- Stream, wave, and water level gage locations




\* New, high-quality USACE bathy/topo will replace existing data

FEMA

## Data Gaps




- Critically eroded beach areas
- Coastal construction control line
- High water marks
- 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

FEMA

## Coastal Mapping and Flood Risk Topics

- Draft Transects
- Coastal Guidance Updates
- VE Zone Mapping and LiMWA
- Coastal Flood Risk Products


FEMA




## Basic Elements of a Coastal Hazard Analysis

Base Flood Elevation on FIRM includes 4 components:

1. Storm surge stillwater elevation (SWEL)
2. Amount of wave setup
3. Wave height above storm surge (stillwater) elevation
4. Wave runup above storm surge elevation (where present)

} Determined from storm surge model



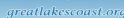


FEMA

## 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 the shoreline
  - Use to define coastal flood risks inland of shoreline

## Draft Transect Layout Ashtabula County

FEMA Region V Coastal Flood Hazard Update  
Overland Wave Hazard Analysis Draft Transect Layout  
Ashtabula County, OH

- 39 transects
- 27 miles of shoreline along Lake Erie

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## Draft Transect Layout Lake County

FEMA Region V Coastal Flood Hazard Update  
Overland Wave Hazard Analysis Draft Transect Layout  
Lake County, OH

- 42 transects
- 30 miles of shoreline along Lake Erie

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## Coastal Flood Hazard Zones

FEMA

- 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

FEMA

- 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?

FEMA

- 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

FEMA

- 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

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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

**LEGEND**

**NOTES TO USERS**

The LiMWA Zone is the Area Extending to a Limit of Moderate Wave Action (LiMWA) Zone. The LiMWA Zone is the Area Extending to a Limit of Moderate Wave Action (LiMWA) Zone. The LiMWA Zone is the Area Extending to a Limit of Moderate Wave Action (LiMWA) Zone.

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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)

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## Changes Since Last FIRM

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 in Development

### Lake Levels

**Erosion**

Example of Slumping  
Source: ODNR Office of Coastal Management

### Shoreline Feature Dataset

**Flooding**

Source: ODNR Office of Coastal Management

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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 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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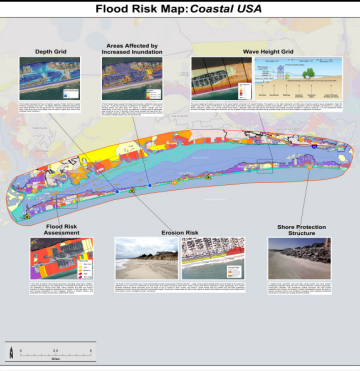
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## Coastal FRM




- **Similar to riverine map**
- **Highlights area where datasets were produced**
- **Use of callout boxes**
- **Should drive the conversation towards mitigation**







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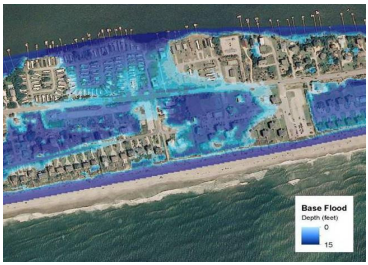
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## Coastal Depth Grid




- **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**







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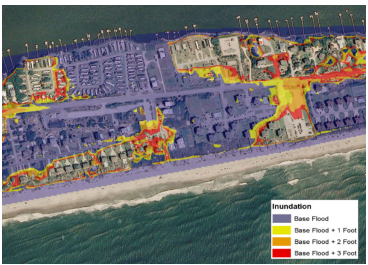
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## Areas Affected by Increased Coastal Inundation




- **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**







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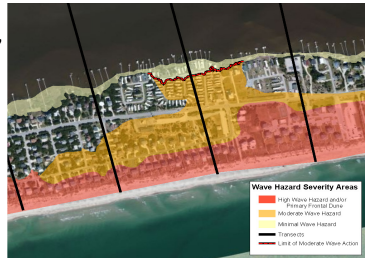
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## Wave Hazard Severity Areas




- **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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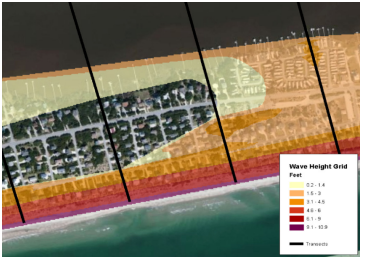
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## Coastal Wave Height Grid




- **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**






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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 conducted for the 1% annual chance flood

**Erosion Risk**

- Transsects
- Dune Eroded
- Dune Retreated
- ▨ PFD Area

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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

**Flood Loss**

- Very Low
- Low
- Medium
- High
- Very High

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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
- Hazard Mitigation Opportunities
- Grant Funding



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# National Flood Insurance Program

- Allows property owners to purchase flood insurance at reduced rates
- Community responsibilities
  - adopt and enforce compliant regulations
- FOCUS is in building the local floodplain management capability
- In Ohio, approximately 750 communities participate in the NFIP



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# V Zones for Ohio?

- Ohio currently does not have V/VE Zones or Coastal A/AE Zones
- All Counties along Lake Erie (except Ottawa County) have recently updated regulations
- If coastal flood zones are added, all affected communities must update regulations to include coastal requirements.
  - ODNR will provide regulations assistance and technical support if/when coastal flood zones are added for Ohio.

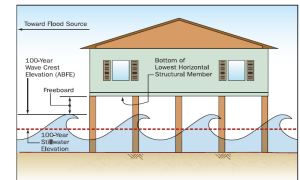


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# Coastal Zones and NFIP Compliance

- 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	Mapping and Regulations
Flood Damage Reduction	Flood Preparation
- <http://training.fema.gov/EMIWeb/CRS/>



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# Ohio CRS Communities




In Ohio, there are 14 CRS communities.

- Cities
  - Fairfield, Kettering, New Richmond, Obetz, Shelby, South Euclid & West Carrollton
- Villages
  - Delta, Orange and Ottawa
- Counties
  - Licking, Ottawa, Preble and Medina




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## Coastal Resources






- **Coastal Erosion Area Maps**
  - Identify areas of anticipated recession based on historic recession rates
- **Lake Erie Shore Erosion Management Plan**
  - Provides regionally based erosion mitigation recommendations
- **Coastal Design Manual**
  - Provides detailed design guidance for engineers and surveyors (erosion control measures)

For more information visit:  
[www.ohiodnr.com/coastal](http://www.ohiodnr.com/coastal)







## Local Hazard Mitigation Plans


**Risk MAP**  
Risk MAP products and Datasets

**Hazard Mitigation Plan**


- Uses Risk Information
- Identifies Projects/Actions
- Integrated with Other Community Plans


**Other Community Plans**


- Comprehensive plans
- Capital Improvement
- Stormwater Management Plans
- Emergency Operations



Mitigation Actions/Projects











## 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)









## Example Mitigation Actions






STRUCTURAL PROJECTS

Acquisition  
Elevation  
Retrofits  
Drainage

PLANNING MECHANISMS

Zoning  
Building Codes  
Ordinances  
Open Space Plan

EDUCATION & OUTREACH

Public Awareness  
Outreach  
Educational programs

NATURAL RESOURCE PROTECTION

Stream and wetland restoration  
Erosion control










## Mitigation Activities

- **Ashtabula County Mitigation Actions (DRAFT County Mitigation Plan)**
  - Evaluate runoff (surface drainage) problems in the county and how these problems affect erosion
  - Seek funding to evaluate Lake Erie shore erosion in Ashtabula County
  - Develop and outreach program to work with private property owners along the shoreline on erosion problems
- **Lake County Mitigation Actions**
  - Continue the implementation of the county's coastal plan
  - Pursue funding sources/partnerships to strategically place groins, break walls, revetment structures, and other appropriate structures to slow erosion
  - Consider implementation of buy-out, elevation, and/or relocation projects










## Mitigation Grant Programs and Funding Sources

- **Federal**
  - Hazard Mitigation Grant Program (HMGP)
  - Pre-Disaster Mitigation Grant Program (PDM)
  - Flood Mitigation Assistance (FMA)
  - Repetitive Flood Claims (RFC)
  - Severe Repetitive Loss (SRL)

- **State**
  - Clean Ohio
  - State General Revenue Funds
  - Community Development Block Grants
- **Local**
  - Watershed Conservancy Districts
  - Local taxes
  - Storm water utilities









# Ohio Mitigation Best Practices Gristmill Condominium Acquisition

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# SHARPP

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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> Zoning, Setbacks, Floodplain Management, etc.	<b>Local Building Codes</b> IBC, IRC, Local Regulations, etc.	<b>Mitigation Projects</b> Acquisition, Elevation, Floodproofing, etc.	<b>Community Identified Mitigation Programs</b>	<b>Management Best Practices</b> Integration of natural hazards into other planning mechanisms
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# Capturing and Tracking Mitigation Actions

## Mitigation Action Form

Version 6/4/2012

**Purpose and Help:**  
This form is meant to assist the collection of Mitigation Actions.  
Online Mitigation Action Collection: [bit.ly/mitigation-actions](http://bit.ly/mitigation-actions)  
State Hazard Mitigation Offices Directory: [www.fema.gov/plan/preact/ohio](http://www.fema.gov/plan/preact/ohio)

**Your Information:**  
Please provide the primary contact associated with this Mitigation Action.

- Full Name:** Please provide your full name, e.g., Michael Smith
- Email Address:** Please provide your email address, e.g., michael@exampl.com
- Your Title and Organization:** Please provide your relevant title and organization as it applies to this form, e.g., Floodplain Administrator for City of Beach, Canada

**Mitigation Action Information**  
Please provide the information that is directly applicable to the mitigation action you are discussing.

- Jurisdiction Name(s):** Please provide the full name of the jurisdiction where the Mitigation Action applies, e.g., City of Boulder, CO
- Mitigation Activity Name:** The mitigation activity names should be concise yet descriptive. For example, Flood acquisition projects along south side of Main St.
- Mitigation Action Status:** Please check the appropriate box. The Mitigation Action Status defines the current stage of the action. For example, "Under Review" suggests that the action has been accepted or funded with intentions to move to "Program" and advance beyond completion.
- Mitigation Action Source:** Please check the appropriate box. The Mitigation Action Source defines the source/agency that identified or refined the action or changing its status.
 

<input type="checkbox"/> Risk MAP Project	<input type="checkbox"/> Comprehensive Land Use Plan	<input type="checkbox"/> FEMA Disaster
<input type="checkbox"/> Capital Improvement Plan	<input type="checkbox"/> Local Mitigation Plan	<input type="checkbox"/> Local Government
	<input type="checkbox"/> Other	

If this Mitigation Action was identified during the RiskMAP Process, please indicate the name of the RiskMAP Project.

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# Next Steps

- You will:**
  - Fill out Mitigation Action Form
  - Provide all data and Mitigation Action Forms to RAMPP by August 31, 2012
- We will:**
  - Assess data and information provided
  - Email summary of today's Discovery Meeting to you within one month
  - Post draft Discovery Maps and Reports online for your review
  - Prepare final Discovery Maps and Discovery Report
  - Follow-up regarding Risk MAP Project


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# Interactive Session

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## 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/SHARPP**

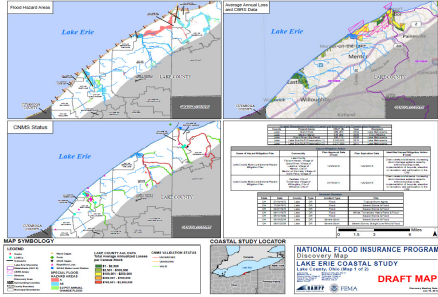
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## Discovery Map



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## Results from Interactive Session

- **Review and Clarify Communication, Planning, and Compliance Needs**
  - Coastal Flood Risk Products
  - Existing local coastal data
  - Local coastal areas of concern
  - Mitigation Action opportunities
  - Mitigation Action form

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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 and State representatives about areas of concern and potential mitigation actions to help reduce risk
  - Fill out Mitigation Action Form

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## Contacts

<p><b>FEMA</b></p> <p><b>Mike Hanke</b> <a href="mailto:michael.hanke@fema.dhs.gov">michael.hanke@fema.dhs.gov</a></p> <p><b>Ken Hinterlong</b> <a href="mailto:ken.hinterlong@fema.dhs.gov">ken.hinterlong@fema.dhs.gov</a></p> <p><b>RAMPP</b></p> <p><b>Amelia Vincent</b> <a href="mailto:amelia.vincent@URS.com">amelia.vincent@URS.com</a></p> <p><b>Jeff Gangai</b> <a href="mailto:jgangai@Dewberry.com">jgangai@Dewberry.com</a></p>	<p><b>State of Ohio</b></p> <p><b>Katherine Skalak</b> <a href="mailto:katherine.skalak@dnr.state.oh.us">katherine.skalak@dnr.state.oh.us</a></p> <p><b>Steve Ferryman</b> <a href="mailto:saferryman@dps.state.oh.us">saferryman@dps.state.oh.us</a></p> <p><b>Deborah Beck</b> <a href="mailto:deborah.beck@dnr.state.oh.us">deborah.beck@dnr.state.oh.us</a></p>
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# Attachment D-3

## Sign-In Sheets

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**Lake & Ashtabula County, Ohio Discovery Sign-In Sheet**

July 19, 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 Mentor	Jim Decker	8500 Civic Center	Mentor, Ohio 44060	440-974-5785	Decker@cityofmentor.com	J.D.
City of Conneaut	Timothy J. Eggleston	294 Main Street	Conneaut, Ohio 44030	440-593-7401	conneautcityhall@conneautoh.org	
Ashtabula County	Dave Smith	25 West Jefferson Street	Jefferson, Ohio 44047	(440) 576-3737	dsmith@co.ashtabula.oh.us	
Lake County	George Hadden	550 Blackbrook Road	Painesville, Ohio 44077	(440) 350-2770	George.Hadden@lakecountyohio.gov	
Lake County	Maurine Orndorff	125 East Erie Street	Painesville, Ohio 44077	(440) 350-5863	morndorff@lakecountyohio.gov	
Lake Metroparks	Eric Stechschulte	11212 Spear Road	Concord Township, Ohio 44078	(440) 352-2608	estechschulte@lakemetroparks.com	
Ohio EMA	Steve Ferryman	2855 W. Dublin - Granville Rd	Columbus OH 43235	(614) 799-3539	sferryman@dps.state.oh.us	S.F.

## Lake & Ashtabula County, Ohio Discovery Sign-In Sheet

July 19, 2012

Please sign in and confirm your contact information, making changes below as needed.

Organization	Name	Address	St, City, ZIP	Phone	Email	Initials
Lake Metroparks	Bobby Oliver	1111 Spear Rd	Lencord Twp 44077	440-350-2100	boliver@lakemetroparks.com	BO
Ashtabula County	David Smith	25 W Jefferson St	Jefferson 44047	440-576-3737	dsmith@co.ashtabula.oh.us	DS
Grand River	Frank Wallard	10 W. Erie	PV, OH	440-227-9279 352-9222	robewengineering@ sbcglobal.net	FW
LAKE SWCD	DAN DONALDSON	125 E. ERIE	PV OH 44077	440-350-2030	ddonaldson@ lakecounty.ohio.gov	DD
Lake County Engineer	George Hadden	550 Blackhawk Road	Mentor, OH 44077	440 350-2770	george.hadden@ lakecounty.ohio.gov	GH
CITY OF EASTLAKE	MIKE SEMIK	35150 LISB	EASTLAKE	440 951-1414	MSEMIK@EASTLAKEOH.COM	MS
LAKE COUNTY	JASON BOYDA	125 E. ERIE	PV OH	440 350 2740	jboyda@lakecountyohio.org	JB
LAKE COUNTY EMA	LARRY GREENE	8505 GARFIELD	Mentor, OH 44060	440 350-5405	larry.greene@lakecountyohio.gov	LG
ASH CO PLANNING	JAKE BRAND	25 W Jefferson	Jefferson, OH	440-576-3835	jabrard@ashtabulaco.us	JB

**Lake & Ashtabula County, Ohio Discovery Sign-In Sheet**

July 19, 2012

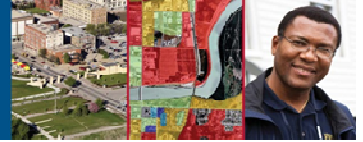
Please sign in and confirm your contact information, making changes below as needed.

Organization	Name	Address	St, City, ZIP	Phone	Email	Initials
OHIO EMA	SIGMON Josh	2855 W. PUBLIC SQUARE RD	Columbus OH 43235	614 794 3531	J.SIGMON@DPS.STATE.OH.US	JS
Ohio DNR	Kathrine Skalak	2045 Morse Rd. Columbus OH 43229	→	614 265 6709	kathrine.skalak@dnp.state.oh.us	KS
RAMPP	Amelia Vincent	12420 Milestone Center Dr. Ste 150	Germantown, MD 20876	301-820-3186	amelia.vincent@urs.com	
<del>CITY OF MARIETTA</del>	<del>Jim Decker</del>	<del>8522 Civic Cir.</del>	<del>Marietta, OH</del>	<del>440 974 5785</del>	<del>DeckerJ@CityofMarietta.com</del>	<del>JED</del>
FEMA	Mike Hanks	536 S. Clark St	Chicago IL	312-408-5364	michael.hanks@fema.dhs.gov	MTH
Fred Kangert ↔	RAMPP	8401 Arlington Blvd	Fairfax, VA 22031	703-849-0305	fkangert@denberry.com	JK
Jeff Gangari	RAMPP	8401 Arlington Blvd.	Fairfax, VA 22031	703-849-0251	jgangari@denberry.com	JA
LAURA ORTIZ	USACE USACE	1776 Niagara Blvd		716.871.4407	laura.v.ortiz usace.army.mil	LVO
SCOTT WLOOG	CT CONSULTANTS	8150 STEELING COURT	METON, OH 44060	440.530.2274	SWOOD@CTCONSULTANTS.COM	RSW

# Attachment D-4

## Meeting Summary

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**Great Lakes Coastal Flood Study ([www.greatlakescoast.org](http://www.greatlakescoast.org))**  
**Ashtabula and Lake County, OH – Lake Erie Discovery Meeting**  
**July 19, 2012 – 2:30 pm to 4:30 pm**  
**Lake County Emergency Operations Center**  
**8505 Garfield Road, Mentor, OH 44060**

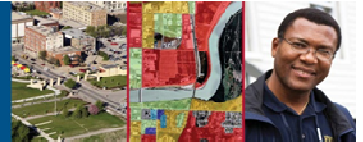
### **Discussion Highlights**

- 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)**
  - Dave Smith with Ashtabula County asked if there are any claims or a driving force behind the non-regulatory coastal products.
    - Answer: The main driving force is observed increases in damages in coastal areas over the years and trying to come up with ways to mitigate these high risk areas.
- 4. NFIP Compliance and Mitigation (review slides)**
  - Jim Decker with City of Mentor asked if a homeowner would qualify for a Preferred Risk Policy if their house goes from being in an AE Zone to a VE Zone.
    - Answer: As long as the coverage is purchased when the house is in the lower risk zone, they can be grandfathered in to paying the low risk policy if there is no lapse in coverage.
  - Jason Boyd with Lake County noted that the county has a list of publically held properties with coastal issues. Some issues include erosion at the toe and subsurface water seepage. He added that there is a breakwater project in Eastern Madison Township to reduce wave energy. There is also a \$4.1 million marina project in the county. The Lake County surveyors Jim Park and Patrick Hurst would be able to provide additional data to help fill in the data gaps with this Discovery project.

### **5. Interactive Sessions**

#### **Discuss Local Coastal Areas of Concern Using the Discovery Map**

- Bobby Oliver with Lake Metroparks asked if community officials would have access to the data collected as part of this Discovery project.
  - Answer: A library of digital files will be created as part of this project. It will include the map data and assessments produced as a result of the Discovery process. RAMPP will provide the digital data to FEMA. Communities will have access to the final Discovery reports and maps.
- Bobby Oliver added that Brian George and Steve Lewis with the Ohio Office of Coastal Management are good contacts for GIS data for coastal erosion datasets and public beach access locations along Lake Erie.
- George Hadden with Lake County said that the county has pictometry available for the last 6 to 7 years that shows the land use changes.



**Oblique Aerials/ Transects**

- While showing the oblique aerials along with the transects, a few areas were identified where some river mouth openings silt over because of erosion/sediment transport problems. During this session, it was also noted that there is a county operated website that houses regularly flown oblique aerials as well as soil types from local soil surveys. The website is [www.lakeGIS.org](http://www.lakeGIS.org). This site needs a username and password. George Hadden of Lake County would try to contact the site host to get RAMPP access to the website.

**6. Close.** The Lake Erie Discovery meeting was adjourned at approximately 4:45 p.m.

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, Fred Knight, and Jeff Gangai

Date: August 23, 2012

cc: Distribution/Participants

Attachments:

Discovery Meeting Sign-in Sheet  
Slide Presentation

# Attachment D-5

## Meeting Evaluation Forms

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\* Meeting Evaluation Forms were provided to attendees of the Ashtabula and Lake Counties meeting. However, no responses were received.



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 Office:

<http://ohiosharpp.ema.state.oh.us/ohiosharpp/>

## 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                       HMA Database  
 Comprehensive Land Use Plan         Local Mitigation Plan  
 Capital Improvement Plan               USACE Silver Jackets  
 Other \_\_\_\_\_

If this Mitigation Action was identified during the Risk MAP Process, please indicate the name of the Risk MAP 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.

---

### 9. Hazard Type *Required*

Select the main type of hazard affected by this Mitigation Action. Check/circle only one.

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Erosion              | <input type="checkbox"/> Hurricane            | <input type="checkbox"/> Tornado          |
| <input type="checkbox"/> Extreme Temperatures | <input type="checkbox"/> Landslide            | <input type="checkbox"/> Tsunami          |
| <input type="checkbox"/> Dam/Levee Failure    | <input type="checkbox"/> Lightning            | <input type="checkbox"/> Wildfire         |
| <input type="checkbox"/> Drought              | <input type="checkbox"/> Severe Winter Storms | <input type="checkbox"/> Wind             |
| <input type="checkbox"/> Earthquake           | <input type="checkbox"/> Storm Surge          | <input type="checkbox"/> Multiple Hazards |
| <input type="checkbox"/> Flood                | <input type="checkbox"/> Subsidence           | <input type="checkbox"/> Other _____      |
| <input type="checkbox"/> Hail                 |   |   |

### 10. Mitigation Category *Required*

Select the type of Mitigation effort being undertaken. Check/circle only one.

- Local Plans and Regulations**  
*These activities include government administrative actions or processes that directly influence the way land and buildings are developed and built. Integrating natural hazards into such activities is one of the most effective forms of mitigation.*
- Structure and infrastructure Projects**  
*These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area altogether.*
- Community Identified Program**  
*These are community efforts to reduce risk on an ongoing basis.*

### 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.

- Maintain Existing**
- Strengthen Existing**
- Add New**



**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 Department | <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"/> Other _____  |

**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 to associate actions with Hazard Mitigation Assistance grant 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"/> FEMA                       |
| <input type="checkbox"/> Private Sector, including Foundations | <input type="checkbox"/> Other Federal Agency _____ |
| <input type="checkbox"/> Regional Water Management District    | <input type="checkbox"/> Property Owner             |
| <input type="checkbox"/> County                                | <input type="checkbox"/> Other _____                |
| <input type="checkbox"/> State                                 |   |

**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.

# Mitigation Action Form



## Part B : Reference Sheet

Use for answering Question 11.

### Local Plans and Regulations

- **Building Codes**
  - Enforcement
  - International Building Code
  - International Residential Code
  - Higher Standards
  - Post Disaster Code Enforcement
  - Other
- Capital Improvement Plan
- Coastal Zone Management
- Comprehensive Plan
- Easements
- Floodplain Management
- Master Plan
- Open Space Preservation
- Setbacks
- Stormwater Management
- Subdivision Ordinance
- Zoning
- Other

### Community Identified Program

- Funding Mechanisms for Local Risk Reduction
- Incentives for Local Risk Reduction
- Mitigation Program
  - Fire Protection
  - Stream Maintenance
  - Tree Management
  - Other

### Structure and Infrastructure Projects

- Acquisition
- UHI Albedo Enhancement
- Elevation
  - Structure
  - Utilities
  - Other
- Flood Control/Management
  - Culvert
  - Bridge Expansion
  - Detention Basin
  - Dams
  - Drainage Improvements
  - Green Roofs
  - Jetties
  - Levees
  - Permeable Paving
  - Rain Gardens
  - Revetments
  - Seawalls
  - Other
- Forest or Vegetation Management
- Infrastructure Retrofit
  - Bridge/Road Retrofit to alleviate flooding
- Natural Systems
  - Beach Nourishment
  - Dune Rehabilitation/Protection
  - Ground Water Recharge
  - Sediment Trapping Vegetation
  - Wetlands Restoration
  - Other
- Retrofit
  - Structural
  - Non-Structural
  - Other
- Safe Room Construction
- Soil Stabilization or Erosion Control
  - Sloping/Grading
  - Vegetation
  - Terracing
  - Rip Rap
  - Geotextile Fabric
- Underground Utilities
- Other



## **Funding Types**

Use for answering Question 17.

### **Community**

- Bonds
- General Funds
- Tax Levies
- Other

### **Private Sector, including Foundations**

### **Regional Water Management District**

### **County**

### **State**

### **FEMA**

- Public Assistance
- Pre-Disaster Mitigation
- Hazard Mitigation Grant Program
- Flood Mitigation Assistance
- Severe Repetitive Loss Repetitive
- Flood Claims
- Other

### **Other Federal Agency**

- Department of Housing and Urban Development
- Bureau of Land Management
- Environmental Protection Agency
- Department of Transportation
- Bureau of Indian Affairs
- National Oceanic and Atmospheric Administration
- U.S. Geological Survey
- Natural Resources Conservation Service
- Other

### **Property Owner**

### **Other**



Attachment D-7  
Community Risk MAP Questionnaire  
Forms

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## **Community Risk MAP Questionnaire**

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As a partner, local participation is a primary component of identifying potential Risk MAP (Mapping Assessment, and Planning) needs. The questions below ask for specific information regarding your community to assist in the development of Risk MAP projects. Please answer as thorough as possible and provide your notes at the Discovery Meeting.

COMMUNITY: \_\_\_\_\_ CONTACT: \_\_\_\_\_

Does your community have recent topographic data (*e.g.*, LiDAR, DEM, *etc.*)?

Do you have local parcel or structural footprint data?

Have there been any additional flood studies performed recently, that are not incorporated in the current FIRM?

Are there areas of flooding within your community that are not identified on current FIRM? If so, what and where is the flooding source?

Has there been recent development causing change to flooding within your community (*e.g.*, roads, filling, structural, *etc.*)?

Are there repetitively flooded properties within your community? If so, where?

Are there areas for potential mitigation projects in your community (*e.g.*, severely flooded areas, properties, *etc.*)? If so, what and where?

Are there levees or other coastal flood control structures within your community?

Are there plans in place for flood control projects (*e.g.*, levees, groins, breakwaters, artificial headlands, *etc.*)? If so, what and where?

Are there any other issues that need to be addressed regarding coastal flooding?

Attachment D-8  
Discovery Map Comments from  
Meeting

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GEAUGA COUNTY

# CNMS Status

## Lake Erie

ASHTABULA COUNTY

LAKE COUNTY

GEAUGA COUNTY

CITY OF MENTOR  
VILLAGE OF FAIRPORT HARBOR  
VILLAGE OF GRAND RIVER  
CITY OF PAINESVILLE

VILLAGE OF NORTH PERRY

VILLAGE OF PERRY

VILLAGE OF MADISON

LAKE COUNTY

*LMP  
Trees  
Washed into lake*

*Estuary at mouth of stream*

*High erosion area 70A*

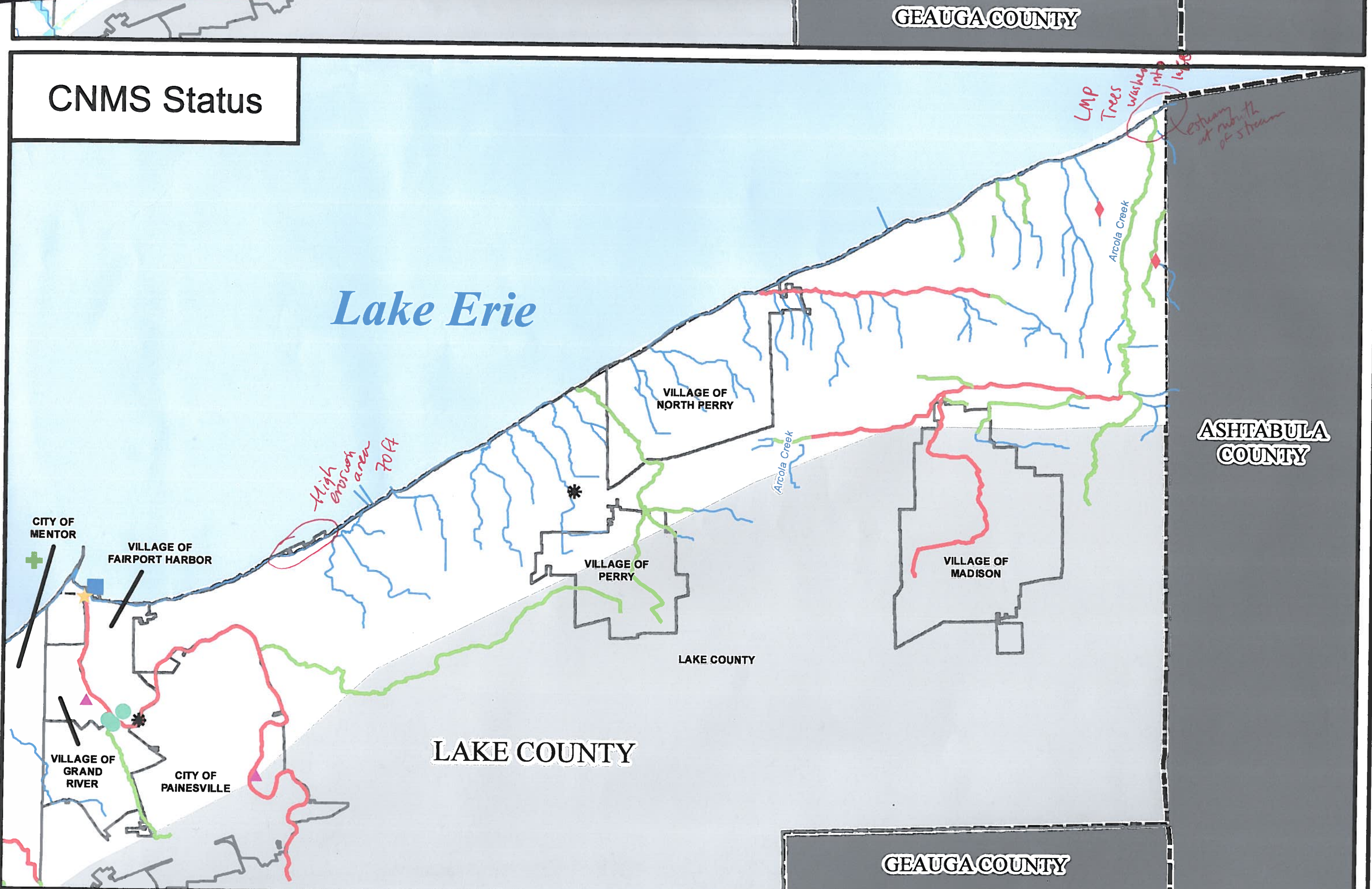
Arcola Creek

Arcola Creek

# MAP SYMBIOLOGY

LEGEND

COAS





Flood Hazard Areas

Ave  
and

Lake Erie

30-40 ft loss erosion

Breakwall

SR535 BRIDGE REPLACEMENT  
Top deck 1.5 to 2ft higher

CUYAHOGA COUNTY

VILLAGE OF TIMBERLAKE

VILLAGE OF LAKELINE

CITY OF EAST LAKE

CITY OF WILLOUGHBY

CITY OF WILLOWICK

CITY OF WICKLIFFE

CITY OF WILLOUGHBY HILLS

VILLAGE OF WAITE HILL

CITY OF MENTOR-ON-THE-LAKE

CITY OF MENTOR

JAMES A. GARFIELD NATIONAL HISTORIC SITE

VILLAGE OF KIRTLAND HILLS

CITY OF KIRTLAND

VILLAGE OF GRAND RIVER

VILLAGE OF FAIRPORT HARBOR

VILLAGE OF GRAND RIVER

VILLAGE OF FAIRPORT HARBOR

LAKE COUNTY

LAKE COUNTY

GEAUGA COUNTY

CNMS Status

