

Appendix D-7
Erie County, PA
Discovery Report

Discovery Report

Great Lakes Coastal Flood Study

Lake Erie

Erie County, Pennsylvania

Individual Discovery Report

Report Number 01

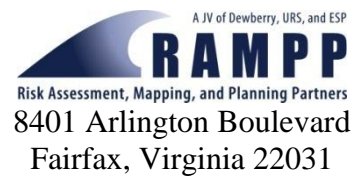
March 2013



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Project Area Community List

Erie County

Erie County
City of Erie
Township of Fairview
Township of Girard
Township of Harborcreek
Borough of Lake City
Township of Lawrence Park
Township of Millcreek
Township of North East
Township of Springfield

This list includes the communities within the Project Area covered by this report (Erie County, PA) 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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Figure

Figure 1: Project area map2

Attachments

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

AAL	Average Annualized Loss
BFE	Base Flood Elevation
BRHA	Bluff Recession Hazard Area
BRSA	Bluff Recession and Setback Act
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
DEM	Digital Elevation Model
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	FEMA's Multi-Hazard Risk Assessment and Loss Estimation Software Program
HUC8	Hydrologic Unit Code 8
HWM	High Water Mark
LE CZ	Lake Erie Coastal Zone
LERC	Lake Erie Region Conservancy
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

Acronyms and Abbreviations

NGDC	National Geophysical Data Center
NID	National Inventory of Dams
NOAA	National Oceanic and Atmospheric Administration
PAMAP	Pennsylvania Mapping
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 utilize updated 1-percent-annual-chance (100-year) flood elevations obtained from a comprehensive storm surge study being developed by the U.S. Army Corps of Engineers (USACE).

An updated coastal flood study is needed to obtain a better estimate of coastal flood hazards on the Great Lakes. The current, effective FIRMs are outdated primarily due to 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 Lake Discovery is to update NFIP products to increase public awareness of short- and long-term lake level variations, storm events, and associated storm surge and waves to improve community resiliencies related to flood losses (life, property, and business).

This Discovery Report discusses the communities potentially affected by coastal flooding in Erie County, PA, as shown in Figure 1.

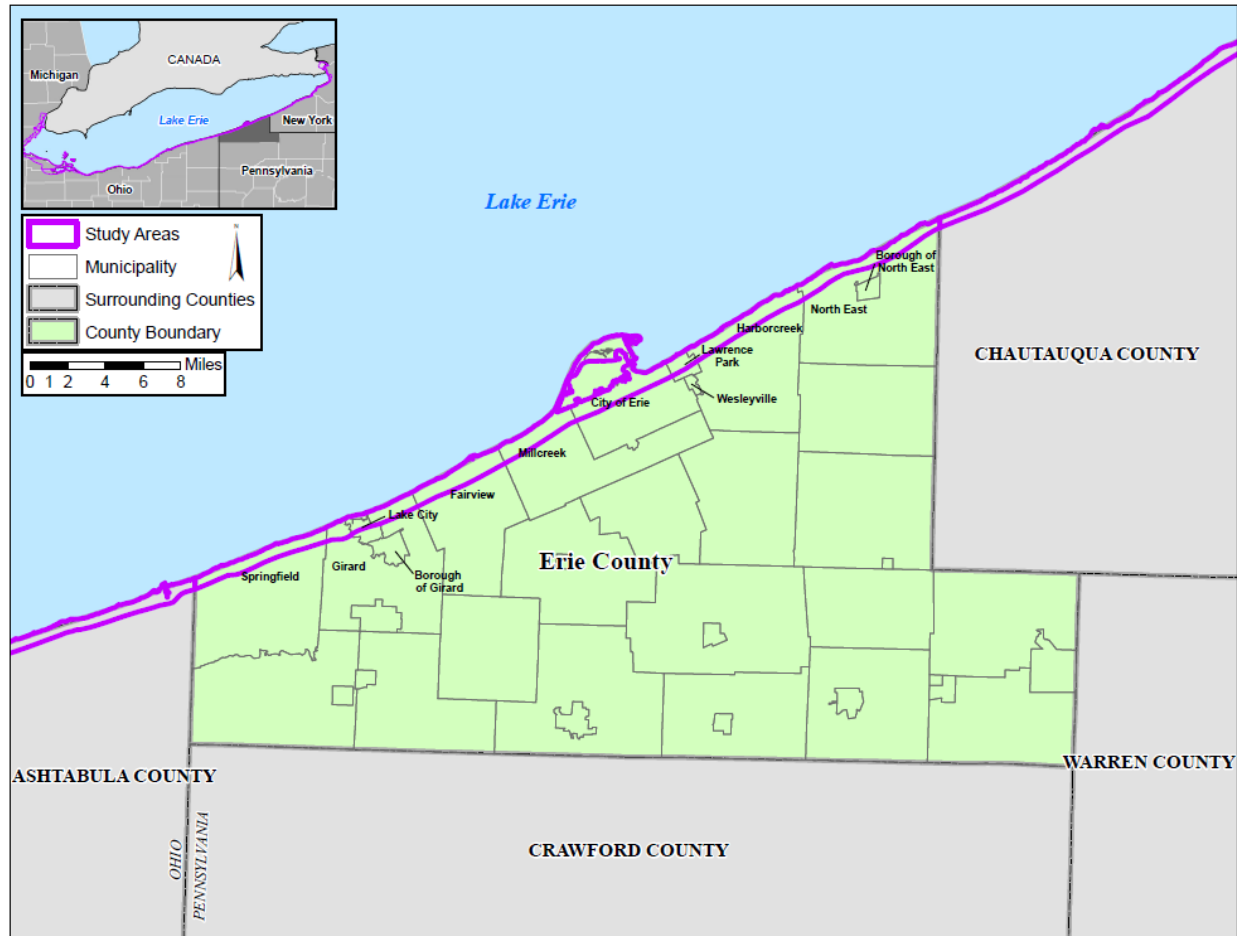


Figure 1: Project area map

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 e-mail, telephone, and letters will be essential. A master list of stakeholders in the communities within the Project Area covered by this report (Erie County, PA) has been established and is included in the Attachments. A total of 80 invitations were sent to stakeholders within the Erie County portion 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 and their sources that the project team collected for the study area before the Discovery Meeting. The Data Analysis that follows Table 1 is divided into two sections: Section 3.1 describes the data that can be used for Risk MAP products and Section 3.2 describes the information that helped the study team form a better understanding of the Project Area.

Table 1: Data Collected for Erie County, PA

Data Types	Deliverable/Product	Source	Date of Data Collection	Resolution
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)	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
Critical Facilities	Discovery Report	Local Mitigation Plans	May 2012	Countywide
Dams	Discovery Report	USACE, National Inventory of Dams, Flood Insurance Rate Map (FIRM) Database	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
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

Data Types	Deliverable/Product	Source	Date of Data Collection	Resolution
Hazards Mitigation Plans and Status	Discovery Report	Local Mitigation Plans	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	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
Ordinances	Discovery Report	Local Community Web sites	June 2012	Countywide
Oblique Aerial Imagery	Discovery Report	Pennsylvania Department of Environmental Protection, USACE	June 2012, July 2012	Countywide, Region-wide
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 provides a general understanding of the dollar losses associated with a certain frequency of flood events within a county and is used to get a relative comparison of flood risk. It is 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 (DEM) 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 Erie County were obtained from the report called “FEMA Hazus AAL Usability Analysis” dated April 13, 2011 (FEMA 2011) 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 Erie County, PA

FIPS Code	County	Total (in \$ K)	Building (in \$ K)	Content (in \$ K)
42049	Erie	22,356	8,532	12,924

Source: FEMA HAZUS AAL Usability Analysis, 2011

FIPS = Federal Information Processing Standards

3.1.2 Bathymetry

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

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

3.1.3 Erosion Data

Shoreline erosion and bluff recession are the most significant Lake Erie coastal hazards. Staff of Great Lake Commission established a monitoring grid consistent with the Pennsylvania Coastal Zone Management Program to provide for stratigraphic variations within each major reach. Gathered data include the global positioning system location, bluff slope, stratigraphic sections present, the thickness of each section, degree of erodibility, presence of groundwater, vegetative cover, land use in the upland, and the general geometry of each site. Project personnel have also collected and analyzed samples of sediment from each stratigraphic unit to test for sand, silt and clay fraction composition. By combining the results of the analyses with the amount of recession occurring between 1982 and 1998, project staff estimated the sediment loading along the Pennsylvania reach.

Bluff Recession Hazard Areas (BRHAs) were identified by the Pennsylvania Department of Environmental Protection Coastal Zone Management Program. BRHAs are defined in Section 3 of the Bluff Recession and Setback Act as “an area or zone where the rate of progressive bluff recession creates a substantial threat to the safety or stability of nearby or future structures or utility facilities.” These bluffs are present along the majority of Erie County’s border with Lake Erie.

3.1.4 Federal Land

The Federal Government owns nearly 650 million acres of land, almost 30 percent of the land area of the United States. Federally owned and managed public lands include National Parks, National Forests, and National Wildlife Refuges. The U.S. Department of the Interior’s National Atlas (<http://www.nationalatlas.gov/mld/fedlanp.html>) does not show any Federal land in Erie County.

3.1.5 Jurisdictional Boundaries

Jurisdictional boundaries were obtained from the preliminary Erie County (All Jurisdictions) FIRM database issued September 30, 2009.

3.1.6 Publicly Owned Land

There are several publicly owned lands within Erie County. Presque Isle State Park and Erie Bluffs State Park are two of the larger parks. There are many State Game Land parcels are in Erie County.

3.1.7 Shoreline Information

Erie County has approximately 76.2 miles of shoreline along Lake Erie. Shoreline classification data were obtained from the U.S. Army Corps of Engineers (USACE) Detroit District. The data categorizes the shoreline materials, land usage, coast type, and vegetation types along the shoreline.

The shoreline classification information was obtained from USACE Detroit District (USACE 2012). It summarizes the shoreline types, lands use, shoreline coverage, and vegetation types along the shoreline, as shown in Tables 3 through 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)
Erie	76.2	28.4	1.8	11.4	14.4	17.7

Source: USACE 2012, Lake Erie Shoreline Classification

Table 4: Summary of Shoreline 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)
Erie	76.2	13.1	2.4	6.9	6.6	18.6	3.0	23.1	-

Source: USACE 2012, 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)
Erie	76.2	3.6	9.3	0.5	26.4	33.3	0.6	-

Source: USACE 2012, Lake Erie Shoreline Classification

Table 6: Summary of Shoreline Vegetation Types

County	Total Shoreline (miles)	Shoreline by Vegetation Type						
		High-Density Shrubs or Trees (miles)	Moderate-Density Shrubs or Trees (miles)	Low-Density Shrubs or Trees (miles)	Manicured Lawn (miles)	None (miles)	Unmaintained Non-Woody Vegetation (miles)	Other (miles)
Erie	76.2	47.1	10.8	1.8	3.9	6.0	2.9	1.2

Source: USACE 2012, Lake Erie Shoreline Classification

3.1.8 Stream Lines/Hydrographs

Stream lines were obtained from the preliminary Erie County (All Jurisdictions) FIRM database issued September 30, 2009.

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>.

LiDAR data are also available from the Pennsylvania Mapping (PAMAP) Program. The PAMAP data products include the LiDAR point cloud, a 1-meter DEM, 2-foot contours, and breaklines.

3.1.10 Transportation

Transportation features were obtained from the preliminary Erie County (All Jurisdictions) FIRM database issued September 30, 2009.

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/>).

Erie County is within six HUC8 watersheds, 04120200 – Lake Erie 04110003 – Ashtabula-Chagrin, 04120101 – Chautauqua-Conneaut, 05010001 – Upper Allegheny, 05010103 – Middle Allegheny-Tionesta, and 05010004 – French.

3.2 OTHER DATA AND INFORMATION

Erie County is located in northwestern Pennsylvania. The county is bordered on the south by Crawford County, PA, on the east by Warren, PA, on the northeast by Chautauqua County, New York, and on the west by Ashtabula County, Ohio. Lake Erie makes up the northwestern border (see Discovery Maps in Attachment C).

The City of Erie and the Townships of Fairview, Lawrence Park, and Millcreek are located in the glaciated portion of the Allegheny Plateau Physiographic Province. The land surface is moderately rolling and consists primarily of undifferentiated glacial morainal deposits including shales, thin sandstones, and limestones.

Within the Township of Harborcreek, sands, gravel, silts, and clayey soils are found chiefly on the lake plain and both deep and shallow medium-textured soils occur in the slight and moderately limey till of the glaciated upland. The soil types that predominate are of the Wallington, Rimer, Conotton, Erie, Volusia, and Allis Associations and are mostly poorly drained and therefore conducive to increased runoff.

The topography of the Township of North East resulted mainly from glaciation. The two principal land forms are lake plain and upland. Sand, gravel, silt and clay are found chiefly on the lake plain along with both deep and shallow, medium-textured soils in the slight and moderately limey till of the glaciated upland.

The Township of Springfield is located partially in the glaciated portion of the Allegheny Plateau physiographic province and partially in the Central Lowland physiographic province. In the southern portion of the township, the land surface is moderately rolling and consists primarily of undifferentiated glacial till. The northern portion of the township is relatively flat and consists of lake and beach deposits intermixed with glacial morainal deposits.

The open coast of Lake Erie and the Erie Harbor are the receiving bodies for the three principal streams. The watersheds of Cascade Creek, Mill Creek, and McDannel Run are small and are almost entirely contained in the City of Erie and the Townships of Lawrence Park and Millcreek.

Several small streams form in the northern part of Millcreek and flow northward into Lake Erie, except Scott Run which empties into Erie Harbor.

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.

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

There are no CBRS within Erie County.

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, sills/perched beaches, and jetties and piers.

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

The USACE coastal structures in Erie County are listed below.

Erie County

- Erie Harbor Disposal Facility, PA
- Erie Harbor North Pier, PA
- Erie Harbor South Pier, PA
- Presque Isle Peninsula East Breakwater, PA
- Presque Isle Peninsula Middle Breakwater, PA
- Presque Isle Peninsula West Breakwater, PA

During a review of the USACE oblique imagery, an additional 750 coastal structures along the Lake Erie U.S. coastline were identified. Man-made coastal structures visible from a map scale of 1:1,500 to 1:3,000 were marked and inventoried. The coastal structures for Erie County 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 National Flood Insurance Program (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 will focus on identifying issues in various areas, such as community floodplain management regulations/ordinances, community administration and enforcement procedures, engineering or other issues within the FIRMs, and other problems in community 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 any violations to the maximum extent possible within established deadlines.

The summary reports of CAV findings were extracted from the FEMA Community Information System (CIS) (<https://portal.fema.gov/famsVuWeb/home>) on June 26, 2012. No information other than the CAV date was available. The CAVs were conducted by the state: City of Erie (11/16/1982), Township of Fairview (03/19/1980), Township of Harborcreek (11/16/1982), Township of Millcreek (05/27/1980), and Township of North East (09/29/1987).

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>.

No communities in Erie County 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.

Erie County has a countywide comprehensive plan (Erie County Comprehensive Plan). The Erie County Comprehensive Plan is a land use and growth management plan prepared by the county planning commission and adopted by the county commissioners which establishes broad goals and criteria for municipalities to use in preparation of their comprehensive plan and land use regulation. The Erie County Comprehensive Plan is dedicated to a local-county partnership - a partnership to preserve Erie County's best physical attributes and it provides a mechanism to enable intelligent decisions on future growth. The Erie County Comprehensive Plan can be found

at the Erie County Web site

(<http://www.eriecountyplanning.org/index.php?page=comprehensive-plan-2>).

At the local level, each municipal government also adopts a Comprehensive Plan. These municipal plans provide an insight into local issues and initiatives that are of concern to municipal officials. These plans cover the same elements as the County Comprehensive Plan, but from a local perspective. Each municipal comprehensive plan in place in Erie County was reviewed for initiatives and needs affected by the regional transportation system. The status of comprehensive plans is shown in Table 7.

Table 7: Summary of Comprehensive Plans for Erie County, PA

Participating Jurisdiction	Comprehensive Plan Status	Web site
Erie County	2003	http://www.eriecountyplanning.org/index.php?page=comprehensive-plan-2
City of Erie	2000	http://www.elibrary.state.pa.us/showresults.asp?c=25
Township of Fairview	2012	http://www.fairviewtownship.com/view_news.asp?record_id=238
Township of Girard	2001	http://www.elibrary.state.pa.us/showresults.asp?c=25
Township of Harborcreek	2010	http://www.harborcreektownship.org/zoning/comp_plan.pdf
Borough of Lake City	1991	http://www.elibrary.state.pa.us/showresults.asp?c=25
Township of Lawrence Park	2004	http://lawrencepark.govoffice.com/index.asp?Type=B_BASIC&SEC=%7BA353D6A8-2BF5-49E0-84BD-A94AF8B129A2%7D
Township of Millcreek	2002	http://millcreektownship.com/Government/ComprehensivePlan.aspx
Township of North East	2005	http://www.elibrary.state.pa.us/showresults.asp?c=25
Township of Springfield	2003	http://www.elibrary.state.pa.us/showresults.asp?c=25

3.2.6 Coordinated Needs Management Strategy and NFIP Mapping Needs

FEMA’s Coordinated Needs Management Strategy (CNMS) was initiated through FEMA’s Risk MAP program in 2009. The CNMS is a FEMA initiative to update the way FEMA organizes, stores, and analyzes flood hazard mapping needs information for communities. The CNMS is only for riverine studies at this time. There are three classifications within the CNMS: “Valid,” “Unverified,” and “Unknown.” New and updated studies (those with new hydrologic and hydraulic models) performed during the Map Modernization program were automatically determined to be “Valid” and the remaining studies went through a 17-element validation process with 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 2012a).

Table 8 summarizes the draft results of the validation analysis obtained from the CNMS in July 2012.

Table 8: CNMS Status for Erie County, PA

County	FIPS Code	Stream Mileage			
		Valid	Unknown	Unverified	Total
Erie	42017	714.6	N/A	6.3	720.9

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 Erie County was obtained from the Erie County Hazard Mitigation Plan. The data are shown in Table 9.

Table 9: Summary of Critical Facilities in Erie County, PA

County	CID1	Community	EMS/Fire/Police	Hospital	Nursing Home	School	Airport	College/University	Correctional Facility	Sewage Treatment Plant
Erie	420449	Erie, City of	13	6	8	31	-	2	1	1
	420450	Fairview, Township of	3	-	2	4	-	-	-	-
	421363	Girard, Township of	1	-	1	-	-	1	1	1
	421144	Harborcreek, Township of	5	-	1	6	-	1	-	-
	422414	Lake City, Borough of	3	-	-	1	-	-	-	1
	420451	Lawrence Park, Township of	3	-	1	2	-	-	-	-
	420452	Millcreek, Township of	8	1	6	20	1	1	-	-
	421368	North East, Township of	-	-	-	3	-	2	-	1
	421369	Springfield, Township of	1	-	-	1	-	-	-	-

¹ CID = Community Identification Number

3.2.8 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 13 dams in Erie County and 7 of those have Emergency Action Plans (Table 10). 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 10: Summary of Dams in Erie County, PA

FIPS Code	County	Number of Dams within County	Number of Dams with Emergency Action Plans	Numbers of Dams within Project Area
42017	Erie	13	7	0

FIPS = Federal Information Processing Standards

3.2.9 Declared Disasters

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

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

Table 11 lists the major disaster declarations that have been declared in Erie County.

Table 11: Declared Disasters in Erie County, PA

Disaster Number	Declaration Date	Disaster Type	Incident Type	Description
1555	09/19/2004	DR	Flood	Severe Storms and Flooding associated with Tropical Depression Frances
1093	01/21/1996	DR	Flood	Flooding
3105	03/16/1993	EM	Snow	Severe Snowfall and Winter Storm
737	06/03/1985	DR	Severe Storm(s)	Severe Storms, High Winds, Tornadoes

Disaster Number	Declaration Date	Disaster Type	Incident Type	Description
3026	01/29/1977	EM	Snow	Snowstorms
337	06/23/1972	DR	Flood	Tropical Storm Agnes

DR = Major Disaster
EM = Emergency

3.2.10 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 12 summarizes the number of insurance policies, their premiums, the numbers and dollar amounts of paid losses, and the numbers of substantial damage in Erie County. 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 June 28, 2012.

Table 12: Summary of Flood Insurance Policies and Claims Erie County, PA

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 Erie	420449	79	\$70,987	\$18,213,100	39	\$374,943.68	1
Township of Fairview	420450	28	\$13,568	\$6,920,900	12	\$161,603.32	1
Township of Girard	421363	8	\$4,608	\$970,000	8	\$250,276.44	3
Township of Harborcreek	421144	35	\$22,667	\$7,075,500	14	\$264,741.67	6
Borough of Lake City	422414	5	\$1,994	\$1,244,500	7	\$306,396.26	2
Township of Lawrence Park	420451	2	\$783	\$630,000	0	\$0	0
Township of Millcreek	420452	147	\$81,404	\$34,489,400	100	\$1,501,202.32	12
Township of North East	421368	49	\$31,165	\$9,271,700	116	\$778,625.35	22
Township of Springfield	421369	4	\$2,721	\$325,000	3	\$26,255.74	2

3.2.11 Gage Data

3.2.11.1 Meteorological Stations

The National Data Buoy Center (NDBC) is part of the NOAA National Weather Service. The NDBC designs, develops, operates, and maintains a network of data collecting buoys and coastal stations. NDBC provides hourly observations from a network of about 90 buoys and 60 Coastal Marine Automated Network (C-MAN) stations located nationally to measure wind speed, direction, and gust; atmospheric pressure; and air temperature. Water level is measured at selected stations. The historical and current data are available at the NDBC Web site <http://www.ndbc.noaa.gov/>. There are no buoy stations within Erie County.

In addition, NOAA’s Great Lakes Environmental Research Laboratory focuses on environmental and ecosystem research in the Great Lakes and coastal marine environments. It maintains multiple datasets, including a collection of meteorological data for 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 13 shows the meteorological station identification number and location for the gage in the Lake Erie Coastal Flood Study area for Erie County. The station location is shown on the Discovery Map.

Table 13: Meteorological Stations in Erie County, PA

Station ID	Location	Owner	Data	Years of Historical Data
ERI	Erie, PA	Great Lakes Environmental Research Laboratory	Meteorological Observation	1948–2007

3.2.11.2 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 14 shows the gage identification numbers and locations for the gages in Erie County. USGS stream gage locations are also shown on the Discovery Maps.

Table 14: Stream Gage Stations in Erie County, PA

County	Gage ID	Begin Date	End Date	Gage Location
Erie	04213040	04/25/1961	01/16/1995	Raccoon Creek near West Springfield, PA
	04213075	08/02/1987	04/25/2011	Brandy Run near Girard, PA
	04213152	07/23/2008	02/17/2011	Walnut Creek Upstream Pool, near Erie, PA
	04213200	03/05/1964	03/06/2011	Mill Creek at Erie, PA

3.2.11.3 Water Level Station

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

Table 15 shows the water level gage station ID and location for the gage in Erie County. The station location is shown on the Discovery Maps.

The station information and water level data are available at the 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 15: Water Level Stations in Erie County, PA

Station ID	Location	Data	Year of Establishment
9063038	Erie, PA	Primary Water Level	1970

In addition, six gages are located along the Canadian shoreline of Lake Erie (Table 16Table 16). 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 16: 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

Multiple gages have monthly water level data dating back to the 1860s, and the USACE Detroit District has monthly Great Lakes water levels and connecting channel outflow records since 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 years 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/>.

3.2.11.4 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/>.

Error! Reference source not found. shows the wave station identification number and location or the gages in the Lake Erie area. The station locations are shown on the Discovery Maps.

Table 17: 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

3.2.12 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. No HWMs have been provided to date.

3.2.13 Historical Flooding

According to the preliminary Erie County, Pennsylvania (All Jurisdictions) FIS, dated September 30, 2009:

Floods may occur during any month of the year in Pennsylvania although they occur with greater frequency in the spring months of March and April.

There have been several major floods in Erie County dating as far back as 1892. Most flooding occurs as a result from inadequate storm drainage. Of particular note are the floods of June 1892, August 1915 and June 1972. The 1892 flood event resulted in considerable loss of livestock and crops.

The major flood of record was reported during a storm of August 1915. Reports of the damage caused and the extent of flooding of Fourmile Creek for this storm have been overshadowed by the problems caused in the City of Erie by flooding along Mill Creek. As reported in the Erie Daily Times, Fourmile Creek washed out the roadway at the Buffalo Road Bridge in Wesleyville and at the Lake Road Bridge in Lawrence Park. In addition several small structures were washed into Lake Erie.

3.2.14 Land Use

According to the U.S. Department of Agriculture 2007 Census of Agriculture, there are approximately 1,600 farms throughout the county, consisting of slightly over 173,000 acres of farmland. As of 2010, approximately 6,490 acres of farmland have been permanently preserved by the County's agricultural conservation easement program, thus protecting them from development and helping to maintain the character of the county's rural areas. Land cover significantly affects hazard vulnerability.

Erie County has historically been a large manufacturing center, and it continues to have a robust manufacturing sector, with almost a fifth of its workforce employed in a diverse mix of industries. The largest employer in Erie County is GE Transportation, which produces locomotives, and has its corporate headquarters in Erie. Erie-based plastics plants manufacture or finish over 10% of the country's plastics. Education and health care industries are also very strong in Erie County, employing over a quarter of the workforce. Erie County is home to five major universities/colleges, and has six major hospitals serving the region.

The majority of population in the county is concentrated along the urbanized-suburbanized Lake Erie / I-90 corridor, where over 80% of Erie County's residents are located.

3.2.15 Levees

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

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

3.2.16 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.

Each completed LOMA or LOMR-F application results in either a removal or non-removal determination for a structure or property from the Special Flood Hazard Area (SFHA). Removal determinations are evaluated during each new Flood Study and those that remain valid after the new analyses are complete are officially revalidated once the revised FIRMs become effective.

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 18

shows the LOMC data. Clusters of LOMCs indicate a need for updated maps and are shown on the Discovery Map. No Conditional LOMAs or Conditional LOMR-Fs were included.

Table 18: Summary of LOMC Cases in Erie County, PA

County	Number of Letters of Map Amendment	Number of Letters of Map Revision
Erie, City of	2	0
Township of Fairview	0	0
Township of Girard	0	0
Township of Harborcreek	7	0
Borough of Lake City	0	0
Township of Lawrence Park	0	0
Township of Millcreek	11	0
Township of North East	0	0
Township of Springfield	2	0

3.2.17 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. The purpose of the Erie County 2012 Hazard Mitigation Plan is:

- To protect life, safety, and property by reducing the potential for future damages and economic losses that result from natural hazards
- To qualify for additional grant funding, in both the pre-disaster and the post-disaster environment
- To qualify for additional credit under CRS
- To speed recovery and redevelopment following future disaster events
- To demonstrate a firm local commitment to hazard mitigation principles
- To comply with both state and Federal legislative requirements for local hazard mitigation plans

The Erie County 2012 Hazard Mitigation Plan outlines 45 mitigation actions which officials believe are attainable and can be implemented over the next five-year cycle. Some of these activities in the project area include:

- Adoption of stormwater ordinances
- Develop and distribute an Emergency Services Newsletter

- Purchase hand-held radios for Emergency Operations Centers and shelter
- Obtain and install portable generators at critical facilities
- Participate in FEMA’s CRS Program
- Updating local floodplain management ordinances and collect and record information on provisions for freeboard, restriction of hazardous materials in the floodplain, and restriction of critical facilities in the floodplain
- Identify and implement structural and property protection projects to reduce the impacts from flooding including acquisition, elevation and relocation projects

The Erie County 2012 Hazard Mitigation Plan was approved on June 11, 2012. It will expire on June 11, 2017.

3.2.17.1 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. There are no completed projects in Erie County, PA.

3.2.17.2 Public Assistance Projects

A list of Public Assistance-funded projects is available at FEMA data feeds Web site (<http://www.fema.gov/data-feeds>). There are no Public Assistance Projects within Erie County, PA.

3.2.17.3 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. The grant projects are available at Pennsylvania Coastal Resources Management Program’s Web site: <http://www.dep.state.pa.us/river/grants/prevfunded/prevfunded.htm>. Table 19 summarizes various grant projects within Erie County.

Table 19: Listing of all Grant Projects in Erie County (various Grants)

Award Year	Grantee	Project Title	Grant Amount
2012	Erie County Department of Planning	Lake Erie Coastal Zone (LE CZ) Coordination and Technical Assistance	\$67,000
2012	Erie County Department of Planning	Bluff Recession and Setback Act (BRSA) Local Ordinance Administration	\$9,000
2012	Northwest Tri-County Intermediate Unit #5	Investigating and Researching Environmental Health Problems	\$13,000
2012	Erie County Conservation District	County-Wide Stream Study for School Students	\$8,000
2012	Environment Erie	Earth Partnership: Renewing Our Great Lake	\$25,000

Summary of Data Analysis

Award Year	Grantee	Project Title	Grant Amount
2012	City of Erie	City of Erie Comprehensive Plan Initiative - Phase 1	\$25,000
2012	Pennsylvania Fish and Boat Commission	Twelvemile Creek Property Acquisition	\$19,000
2012	Erie-Western PA Port Authority	Courtesy Dock and Fuel Dock Replacement	\$50,000
2012	Erie Times-News in Education Inc.	Creating LECZ Stewards	\$38,760
2012	Penn State Sea Grant	Building Coastal Outreach Capacity in Pennsylvania	\$89,000
2011	Erie County Department of Planning	LECZ Coordination & Technical Assistance	\$67,000
2011	Erie County Department of Planning	BRSA Local Ordinance Administration	\$9,000
2011	Springfield Township	Implementation of Springfield Township's Parks Master Plan - Phase I	\$95,000
2011	Erie Times-News in Education Inc.	LECZ Issues and Solutions	\$38,760
2011	Regional Science Consortium	Evaluation of Lake Sturgeon Population and Their Habitat in Lake Erie	\$49,974
2011	Lake Erie Watershed Association	Building Sustainable Communities	\$35,000
2011	Northwest Tri-County Unit	Investigating and Researching Environmental Health Problems	\$10,000
2011	Erie-Western PA Port Authority	Launch Ramp Repair	\$30,000
2011	Erie-Western PA Port Authority	Public Access Repair	\$20,000
2011	Penn State Sea Grant	Building Coastal Outreach Capacity in Pennsylvania 2011	\$118,976
2010	Erie County Department of Planning	LECZ Coordination & Technical Assistance	\$65,000
2010	Erie County Department of Planning	BRSA Local Ordinance Administration	\$9,000
2010	Erie-Western PA Port Authority	Liberty Park Fishing Pier	\$75,000
2010	Regional Science Consortium	Evaluation of Lake Sturgeon Population and Their Habitat in Lake Erie	\$43,896
2010	Asbury Woods Nature Center and Millcreek Township School District	Walnut Creek Initiative: Leadership in Watershed Education	\$49,347
2010	Earth Action	Earth Action Youth - Non-point Source Pollution	\$45,000
2010	Northwest Tri-County Unit	Investigating and Researching Environmental Health Problems	\$13,543
2010	Erie Times-News In Education, Inc.	Protecting LECZ through Education (Erie Times News)	\$34,680
2010	Regional Science Consortium	Evaluation of Round Goby Habitat Disturbance and Impacts to Native Fish	\$49,946

Summary of Data Analysis

Award Year	Grantee	Project Title	Grant Amount
2010	Erie County Department of Public Safety	Contamination Containment Trailer Project	\$4,127
2010	Erie Downtown Partnership	Erie Downtown Litter Prevention and Containment Program	\$13,500
2010	Pennsylvania State University (Behrend Campus)	Building Ocean (Coastal) Resources Capacity in PA	\$100,033
2010	Pennsylvania Game Commission	Protection of Lake Erie Shoreline (Roderick Wildlife Preserve Addition)"	\$100,000
2010	Audubon Pennsylvania	Bird Use of Coastal Habitat During Migration Phase III	\$46,000
2009	Erie County Department of Planning	LECZ Coordination & Technical Assistance	\$60,000
2009	Erie County Department of Planning	Bluff Regulation and Setback Act Implementation	\$7,000
2009	Lawrence Park Township	Lakeside Boat Launch Ramp	\$30,000
2009	Millcreek Township	Walnut Creek Bank Stabilization Design	\$45,000
2009	Erie Times-News In Education Inc.	Protecting LECZ Assets by educating Students & Citizens	\$38,760
2009	Lake Erie Region Conservancy (LERC)	Protecting Open Spaces	\$10,000
2009	Regional Science Consortium	Presence, distribution & abundance of chemicals of concern in beach waters of Presque Isle State Park	\$20,000
2009	Lake Erie - Allegheny Earth Force Inc.	Earth Force Youth - Urban Forests	\$40,000
2009	Erie County Conservation District	Erie County Conservation District Educational Program Development	\$4,500
2009	Erie Downtown Partnership	Erie Downtown Litter Prevention and Containment Program	\$5,000
2009	The Bayfront Center for Maritime Studies	Watershed War Canoe	\$9,000
2009	Fairview Township	Fairview Township Comprehensive Plan	\$34,700
2009	Pennsylvania State University (Behrend Campus)	Building Ocean (Coastal) Resources Capacity in PA	\$100,033
2009	Erie County Conservation District	Lake Erie Integrated Water Resource Mgmt Plan	\$20,000
2009	The National Audubon Society	Bird Use of Coastal Habitat During Migration (Phase II)	\$35,000
2008	Erie County Department of Planning	LECZ Coordination & Technical Assistance	\$60,000
2008	Erie County Department of Planning	BRSA Local Ordinance Administration	\$6,600
2008	Erie County Department of Planning	Elk Creek public access	\$30,000

Summary of Data Analysis

Award Year	Grantee	Project Title	Grant Amount
2008	Erie Times-News In Education Inc.	Students and Citizens can do more to Protect Lake Erie Coastal Zone Assets	\$34,680
2008	Erie-Western Pennsylvania Port Authority	Seaway Trail Extension Phase II	\$50,000
2008	Millcreek Township - Asbury Woods Nature Center	Walnut Creek Initiative	\$36,500
2008	Erie County Convention Center Authority	West Canal Basin Floating Transient Dock	\$50,000
2008	Lake Erie-Allegheny Earth Force	Earth Force Youth - Pollution Prevention	\$42,800
2008	LERC	Conservation Easement Appraisal Funding	\$6,000
2008	Northwest Tri-County Unit	Investigating and Researching Environmental Health Problems	\$20,000
2008	Erie County Conservation District	Lake Erie Integrated Water Resource Management Plan - Phase I	\$30,000
2008	Pennsylvania State University (Behrend Campus)	Building Ocean (Coastal) Resources Capacity in PA	\$99,087
2008	Penn State Sea Grant	Walnut Creek Water Quality Network Program	\$40,000
2007	Erie County Department of Planning	LECZ Coordination and Technical Assistance	\$60,000
2007	Erie County Department of Planning	BRSA Local Ordinance Administration	\$6,000
2007	Erie Regional Science Consortium	Bacteria Analysis of Beach Waters at Presque Isle State Park	\$35,000
2007	Fairview Township	Avonia Beach Park Public Access Improvements	\$45,000
2007	Erie County Health Department	Eastern Erie County Watershed Bacteriological Study	\$25,000
2006	Erie County Department of Planning	LECZ Coordination and Technical Assistance	\$93,000
2006	Erie County Department of Planning	BRSA Local Ordinance Administration	\$8,800
2006	Harborcreek Township	Shades Beach Sheltered Boat Launch Project	\$175,000
2006	The Citizens Public Safety Council of Erie County	Emergency Services Rescue Craft	\$50,000
2006	Strong Vincent High School	SCUBA DOOs Too Training	\$10,300
2006	PA-Lake Erie Watershed Association	Erie Bluffs Workshops-Part 2	\$39,400
2006	Erie Regional Science Consortium	Presque Isle Beach Bacteria Testing	\$33,700
2006	Erie Times-News In Education Inc.	Erie Times-News in Education	\$40,000
2006	Lake Erie-Allegheny Earth Force	Allegheny Earth Force-2007	\$20,900
2006	Erie County Health Department	Western County Tributary Bacteria Testing	\$102,780
2006	Penn State Sea Grant	Presque Isle Bay Management Study	\$50,000

Summary of Data Analysis

Award Year	Grantee	Project Title	Grant Amount
2006	City of Erie	City of Erie Urban Reforestation Project	\$25,000
2006	Millcreek Township School District	Walnut Creek Education Initiative-Phase 5	\$20,000
2005	Erie County Department of Planning	LECZ Coordination and Technical Assistance	\$55,000
2005	Erie County Department of Planning	BRSA Local Ordinance Administration	\$8,800
2005	Lake Erie-Allegheny Earth Force	Engaging Youth in Best Management Practices	\$49,800
2005	Erie Times-News In Education	Erie Times News in Education	\$23,400
2005	Erie-Western Pennsylvania Port Authority	Cherry Street Marina Public Access Enhancements	\$49,000
2005	LERC	Saving Lands Saves Money-Land Acquisition Study	\$45,000
2005	Erie-Western Pennsylvania Port Authority	Historic Boathouse Restoration	\$45,000
2005	Presque Isle Partnership, Inc.	Waterworks Interpretative Signage at Presque Isle State Park	\$19,300
2005	Pennsylvania State University (Behrend Campus)	Building Ocean (Coastal) Resources Capacity in PA	\$107,424
2005	PA Department of Conservation of Natural Resources	Ridge Environmental Center Research Equipment-3	*
2005	Mercyhurst College	Lake Erie CZ Vegetation Manual	\$25,000
2005	Pennsylvania Department of Transportation	Coastal Zone Wetland Monitoring Update	\$10,000
2004	Erie County Department of Planning	LECZ Coordination and Technical Assistance	\$30,000
2004	Erie County Department of Planning	BRSA Local Ordinance Administration	\$4,400
2004	Millcreek Township School District	Walnut Creek Initiative (Phase 4)	\$33,100
2004	Erie Times-News In Education	Coastal Non-point Source Pollution Solutions	\$23,400
2004	Erie Port Authority	Chestnut Street Boat Launch Expansion	\$50,000
2004	Erie Bayfront Center for Maritime Studies, Mercyhurst College, Pennsylvania Sea Grant, & Lake Erie Shipwreck Preservation Society	Lake Erie Underwater Survey (Phase II)	\$49,000
2004	Lake Erie-Allegheny Earth Force	Lake Erie-Allegheny Earth Force	\$49,500
2004	Girard and Springfield Townships	Erie Bluffs State Park Baseline Study	\$50,000
2004	Pennsylvania Coastal Zone Management	Building Ocean (Coastal) Resources Capacity in Pennsylvania's Coastal Programs	\$90,000
2004	Pennsylvania Department of Transportation	Coastal Zone Wetland Monitoring Update	\$10,000

Summary of Data Analysis

Award Year	Grantee	Project Title	Grant Amount
2004	Pennsylvania Department of Transportation	Lake Erie Coastal Zone Monitoring Overflights	\$9,000
2004	Erie County Planning Department	Agricultural Easement Conservation Acquisition	\$61,000
2004	Presque Isle Nature Center	Laboratory Equipment-Presque Isle Nature Center	\$100,000
2004	Erie County Department of Health	Storm Event Sediment Sampling	\$32,500
2004	Pennsylvania Coastal Zone Management	State Water Planning	\$130,000
2003	Erie County Department of Planning	LECZ Coordination and Technical Assistance	\$30,000
2003	Erie County Department of Planning	BRSA Local Ordinance Administration	\$4,400
2003	Bayfront Center for Maritime Studies and Pennsylvania Sea Grant	Environmental Rediscoveries	\$26,975
2003	Harborcreek Township	Shades Beach Off-Shore Improvements Redesign Project	\$30,000
2003	Girard Township	Girard Township Elk Creek Access Project Design	\$23,250
2003	Mercyhurst College	Propagation Of Native Plant Species For Habitat Restoration	\$20,610
2003	Strong Vincent High School	SCUBA Do's	\$7,000
2003	City of Erie	Frontier Park Pathway	\$42,357
2003	Lake Erie-Allegheny Earth Force	Lake Erie-Allegheny Earth Force	\$48,000
2003	Erie Port Authority	East Canal Basin Public Fishing Pier	\$25,000
2003	Erie Port Authority	Phase I Archeological Survey	\$53,000
2003	Girard Township	Girard Township Bluff Mapping Project	\$24,450
2003	Erie Maritime Museum and the Flagship Niagara League	Education Curriculum	\$5,627
2003	Erie Port Authority	Sassafras Street Pier - Public Access Improvements	\$50,000
2003	Pennsylvania Department of Transportation	Coastal Zones Wetland Monitoring Update - Aerial Photos	\$10,000
2003	Pennsylvania Coastal Zone Management	Lake Erie Coastal Zone Monitoring Oblique Aerial Photography	\$4,500
2003	Erie County Planning Department	Erie County Agriculture Conservation Easement Program -Sceiford Farm	\$140,000
2003	Regional Science Consortium	Presque Isle Center Research Equipment Program	\$100,000
2003	Erie County Department of Planning	Erie County Agriculture Conservation Easement Program -Maas Farm	\$31,000
2002	Pennsylvania Coastal Zone Management Program	CZs Wetland Monitoring Update - Aerial Photos	*

Award Year	Grantee	Project Title	Grant Amount
2001	Erie County Department of Planning	LECZ Coordination and Technical Assistance	*
2001	Pennsylvania Coastal Zone Management Program	Bluff Recession and Setback Ordinance Administration, North East, Springfield, Girard, Fairview, Millcreek, Lawrence Park and Harborcreek Townships, and the Borough of Lake City	*
2001	Millcreek Township	Walnut Creek Watershed Environmental Education	*
2001	Erie County Department of Planning	Coastal Mapping Project	*
2001	Erie County Department of Planning	Springfield Township Comprehensive Plan	*
2001	Erie Port Authority	Liberty Park Improvements	*
2001	Pennsylvania Coastal Zone Management Program	Lake Erie Coastal Zone Monitoring Overflights	*

*Data not available

3.2.18 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.

Pennsylvania Department of Environmental Protection also has flown oblique imagery for the Pennsylvania shoreline of Lake Erie in the fall of 2011. The oblique imagery for Pennsylvania can be viewed at <http://www.dep.state.pa.us/river/gis/obliques.htm>.

3.2.19 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 SFHAs but also seek to mitigate the growth of SFHAs caused by increased runoff from developed areas and the degradation of natural flood control areas, such as wetlands and forests.

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 20.

Table 20: 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 Erie County is shown in Table 21.

Table 21: Program Status and Ordinance Level for Erie County, PA

County	Community	CID	Program Status	Ordinance Level
Erie County	Erie, City of	420449	Participating	D
	Township of Fairview	420450	Participating	D
	Township of Girard	421363	Participating	D
	Township of Harborcreek	421144	Participating	D
	Borough of Lake City	422414	Participating	C
	Township of Lawrence Park	420451	Participating	D
	Township of Millcreek	420452	Participating	D
	Township of North East	421368	Participating	D
	Township of Springfield	421369	Participating	D
	Township of Springfield	420449	Participating	D

3.2.20 Regulatory Mapping

The preliminary FIS for Erie County was released on September 30, 2009. Table 22 lists the effective data for each community.

Table 22: Effective FIS Status of Erie County, PA

County	Community	CID	Product Types	Initial FIRM	Effective FIS
Erie County	Erie, City of	420449	FIS & FIRM	03/01/1979	09/01/1978
	Township of Fairview	420450	FIS & FIRM	09/29/1978	03/01/1978
	Township of Girard	421363	FIS & FIRM	06/30/1975	None
	Township of Harborcreek	421144	FIS & FIRM	09/17/1980	09/17/1980
	Borough of Lake City	422414	FIS & FIRM	06/30/1976	None
	Township of Lawrence Park	420451	FIS & FIRM	09/28/1978	09/27/1978
	Township of Millcreek	420452	FIS & FIRM	04/16/1979	04/16/1979
	Township of North East	421368	FIS & FIRM	05/19/1981	05/19/1981
	Township of Springfield	421369	FIS & FIRM	12/01/1982	12/01/1982

3.2.21 Repetitive Loss/Severe Repetitive Loss Properties

The data obtained from FEMA suggest that claims for repetitive losses were filed in several communities in Erie County, as shown in Table 23.

Table 23: Summary of Repetitive Erie County, PA

County	CID	Community Name	No. of Rep Losses
Erie	420449	Erie, City of	6
	420450	Township of Fairview	2
	421363	Township of Girard	0
	421144	Township of Harborcreek	2
	422414	Borough of Lake City	5
	420451	Township of Lawrence Park	0
	420452	Township of Millcreek	28
	421368	Township of North East	33
	421369	Township of Springfield	0

3.2.22 Socio-Economic Analysis

Table 24 provides the census population data from 1990, 2000, and 2010 for Erie County, PA.

Table 24: Summary of Census Population Data in Erie County, PA

County	1990 Population	2000 Population	2010 Population
Erie	275,572	280,843	280,566

Source: US Census Bureau, 2010

According to the U.S. Census Bureau (2010), the total population of Erie County was 280,843 in 2000 and 280,566 in 2010.

Erie County has historically been a large manufacturing center, and it continues to have a robust manufacturing sector, with almost a fifth of its workforce employed in a diverse mix of industries. Agriculture also remains an important sector of the economy of Erie County, generating over \$71 million in revenues in 2007. The county is a significant tourism and recreation area, the largest attraction being the 3,000-acre Presque Isle State Park. Presque Isle is the most active state park in Pennsylvania, drawing over four million annual visitors, and contains seven miles of beaches and twenty-one miles of recreational and hiking trails.

3.2.23 Transects

Cross-shore transects are used during coastal hazards analysis and mapping to define representative profiles for a shoreline reach to model coastal flood risks inland of the shoreline. The transect layout for coastal hazards analysis and subsequent floodplain delineation is determined by physical factors such as changes in topography, bathymetry, shoreline orientation, and land cover data, in addition to societal factors such as variations in development and density. These physical and societal factors along with aerial photographs were reviewed to determine the appropriate placement for hazard modeling transects.

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

The draft transect layout is shown on the Discovery Maps. There are 57 draft transects for 76 miles of shoreline along Lake Erie.

3.2.24 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 Erie County was held on July 18, 2012 in Erie, PA. Communities affected by coastal flooding in Erie County were invited to the Discovery meeting and a total of 17 people, including representatives from FEMA, state agencies and communities, attended the meeting. The purpose of this meeting was to facilitate discussion about study needs, mitigation project needs, desired compliance support, and local flood risk awareness efforts. During the Discovery Meeting, fact sheets on the Great Lakes Coastal Flood Study were distributed. These fact sheets can be obtained from the project Web site at: <http://www.greatlakescoast.org/tag/fact-sheets/>.

Discovery Maps were displayed at the meeting to stimulate the discussion. Attendees, including 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 utilized 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% 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 Erie County described in Section 3.2.17.

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. It is unknown if there are any open CAVs in Erie County. 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 e-mail, 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 were interested in learning more about the new methodologies being used as part of the Great Lakes Coastal Flood Study, 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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<http://www.eriecountyp Planning.org/index.php?page=comprehensive-plan-2>.
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- Erie County Metropolitan Planning Commission, Springfield Area Background Analysis and Comprehensive Land Use Plan, 1977,
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- Michael Baker Jr., Inc., Erie County 2012 Hazard Mitigation Plan, <http://www.eriehmp.com/>.

- Millcreek Township Comprehensive Plan, 2002 Update,
<http://www.elibrary.state.pa.us/showresults.asp?c=25>.
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- U.S. Geological Survey, National Water Information System Web Interface.
<http://waterdata.usgs.gov/nwis/rt>.

Attachment A: Communications

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
Alliance of Aquatic Resource Monitoring	http://www.dickinson.edu/allarm	Julie Vastine		Environmental Studies Department, Holland Union Building, P.O. Box 1773	Carlisle, Pennsylvania 17013	717-245-1565	allarm@dickinson.edu	Organization	Higher Ed/Watershed	Region	Watershed
Centers for Ocean Sciences Education Excellence (Great Lakes)	http://coseegreatlakes.net	Marti Martz		Tom Ridge Environmental Center, 301 Peninsula Drive, Suite 3	Erie, Pennsylvania 16505	n/a	mam60@psu.edu	Organization	Environmental	Region	Pennsylvania
Centers for Ocean Sciences Education Excellence (Great Lakes)	http://coseegreatlakes.net	David Skellie		Tom Ridge Environmental Center, 301 Peninsula Drive, Suite 3	Erie, Pennsylvania 16505	n/a	n/a	Organization	Environmental	Region	Pennsylvania
Coastal Resources Management Program	http://www.dep.state.pa.us/r	Don Benczkowski	Environmental Planner 2	Tom Ridge Environmental Center, 301 Peninsula Drive, Suite 3	Harrisburg, PA 17105-8465	(814) 217-9634	dbenczkows@pa.gov	Organization	Environmental	Region	Pennsylvania
Coastal Resources Management Program under the Pennsylvania Department of Environmental Protection	http://www.dep.state.pa.us/river/czmp.htm	Andrew Zemba	Associate Director	P.O. Box 2063, 400 Market Street, 2nd Floor	Harrisburg, Pennsylvania 17105	717-772-5633	azemba@state.pa.us	Organization	Environmental	Region	Pennsylvania
Department of Community & Economic Development	http://www.newpa.com/local	Dan Fitzpatrick	PA State NFIP Coordinator	400 North Street, 4th Floor	Harrisburg, PA 17120-0225	717-720-7445	dafitzpatr@state.pa.us	Organization	Environmental	Region	Pennsylvania
Erie Area Water Ecology Committee	http://www.dickinson.edu/allarm	Scott A. Palermo, III		4519 Miller Avenue	Erie, Pennsylvania 16509	814-866-6816	spalermoerie@aol.com	Organization	Higher Ed/Watershed	Erie	Watershed
Erie County	http://www.erie.pa.us/	Julia Donahue	Coastal Zone Management Planner	Erie County Courthouse, Room 111, 140 West 6th Street	Erie, PA 16501	n/a	jmconnaughey@eriecountygov.org	County	Government	Erie	Erie County
Erie County	http://www.erie.pa.us/	Mat Puz	Erie County Department of Planning	Erie County Courthouse, Room 111, 140 West 6th Street	Erie, PA 16501	n/a	mpuz@eriecountygov.org	County	Government	Erie	Erie County

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Erie County Conservation District	http://www.erieconservation.org	Earl Brown	District Manager	1927 Wager Road	Erie, PA 16509	814-825-6403	earljbrown@erieconservation.com	Organization	Conservation District	Erie	Erie County
Erie County Dept. of Health	http://ecdh.org/	Andrew Glass	Director	606 W. 2nd Street	Erie, PA 16507	814-451-6701	aglass@ecdh.org	County	County	Erie	Erie County
Erie County Dept. of Planning	http://www.eriecountyplanning.org	Jake Welsh	Director	Courthouse, Room 111, 140	Erie, PA 16501	814-451-7003	jwelsh@eriecounty.gov	County	County	Erie	Erie County
Erie County Emergency Management	http://eriecounty.gov/government/departments/public_safety/emanagement.aspx	Todd Geers	Director of Public Safety	2880 Flower Road	Erie, PA 16509	814-451-7920	tgeers@eriecounty.gov	County	Emergency Management	Erie	Erie County
Erie County Public Safety	http://www.ecdops.org/	Dale Robinson	Emergency Management Coordinator	2880 Flower Road	Erie, PA 16509	814-451-7922	drobinson@ecdops.org	County	Government	Erie	Erie County
Erie Water Works	http://www.eriewater.org/	Paul Vojtek	Director	340 West Bayfront Parkway	Erie, PA 16507	(814) 870-8000	pvojtek@eriewaterworks.org	County	Government	Erie	Erie County
Erie Western Pennsylvania Port Authority		Ray Schreckengost	Director	100 State Street, Suite 203	Erie, PA 16501	(814) 455-7557	schreck@porter.ie.org	Organization	Environmental	Region	Watershed
Erie, City of	http://www.erie.pa.us/	Armand Chimenti	Zoning Officer	Department of Public Works, 626 State Street	Erie, PA 16501	n/a	achimenti@erie.pa.us	Community	Government	Erie	City of Erie
Erie, City of	http://www.erie.pa.us/	Mark Kwitowski	Director	626 State Street	Erie, PA 16501	(814) 870-1360	mkwitowski@ci.erie.pa.us	Community	Government	Erie	Erie, City of
Erie, City of	http://www.erie.pa.us/	Douglas E. Mitchell	Director of Public Works	Department of Public Works, 626 State Street, Room 504	Erie, PA 16501	814-870-1450	DMitchell@erie.pa.us	Community	Government	Erie	City of Erie
Erie, City of	http://www.erie.pa.us/	The Honorable Joseph E. Sinnott	Mayor	City Hall, 626 State Street	Erie, PA 16501	n/a	n/a	Community	Government	Erie	City of Erie
Erie, City of	http://www.erie.pa.us/	Jon Tushak	City Engineer	Department of Public Works, 626 State Street, Room 504	Erie, PA 16501	814-870-1370	JTushak@erie.pa.us	Community	Government	Erie	City of Erie
Erie, City of	http://www.erie.pa.us/	Andy Zimmerman	Manager, Office of Code Enforcement	Department of Public Works, 626 State Street	Erie, PA 16501	n/a	AZimmerman@erie.pa.us	Community	Government	Erie	City of Erie
Fairview Parks & Recreation	http://fairviewtownship.com/	Judy Schroeck	Executive Director	Township Building, 7471 McCray Road	Fairview, PA 16415	814-474-5942	zoning@fairviewtownship.com	Community	Government	Erie	Township of Fairview

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Fairview, Township of	http://fairviewtownship.com/	Jim Cardman	Zoning Administrator	Township Building, 7471 McCray Road	Fairview, PA 16415	814-474-5942	zoning@fairviewtownship.com	Community	Government	Erie	Fairview, Township of
Fairview, Township of	http://fairviewtownship.com/	Peter D. Krauss	Supervisor	Township Building, 7471 McCray Road	Fairview, PA 16415	814-474-5942	supervisors@fairviewtownship.com	Community	Government	Erie	Fairview, Township of
Fairview, Township of	http://www.urbanengineers.com/urbanoffices/erie.html	George Willis	Township Engineer	Urban Engineers, Inc., 1319 Sassafras Street	Erie, PA 16501	814-453-5702	ghwillis@urbanengineers.com	Community	Government	Erie	Township of Fairview
Gannon University	http://www.gannon.edu/departments/env/default.asp	Harry R. (Rick) Diz	Professor, Department Chair	109 University Square, Zurn Science Center - 424	Erie, Pennsylvania 16541	814-871-7633	diz@gannon.edu	Organization	Higher Ed/Watershed	Region	Higher Ed
Girard, Township of	http://www.girardtownship.com/Pages/Township_Directory.aspx	Sandra L. Anderson	Supervisor	Township Building, 10140 Ridge Road	Girard, PA 16417	814-774-4738	lbgrdtwp@roadrunner.com	Community	Government	Erie	Girard, Township of
Girard, Township of	http://www.girardtownship.com/Pages/Township_Directory.aspx	William Bailey	Planning Commission Chairman	5101 Pieper Road	Girard, PA 16417	814-774-3065	n/a	Community	Government	Erie	Girard, Township of
Girard, Township of	http://www.girardtownship.com/Pages/Township_Directory.aspx	Becky Hosack	Zoning Administrator	Township Building, 10140 Ridge Road	Girard, PA 16417	814-774-4738 x 101	bhgrdtwp@roadrunner.com	Community	Government	Erie	Girard, Township of
Girard, Township of	http://www.hrg-inc.com/hrg_new/index.html	Chris Kogelnik, P.E.	Township Engineer	Herbert, Rowland & Grubic, Inc., 3755 East State Street	Hermitage, PA 16148	724-983-1860	ckogelnik@hrg-inc.com	Community	Government	Erie	Girard, Township of
Harborcreek, Township of	http://www.harborcreektownship.org/	Connie Cruz	Parks Coordinator	Township Building, 5601 Buffalo Road	Harborcreek, PA 16421	814-899-5890	ccruz@harborcreektownship.org	Community	Government	Erie	Township of Harborcreek
Harborcreek, Township of	http://www.harborcreektownship.org/	Brian Benovic	Emergency Management Coordinator	Township Building, 5601 Buffalo Road	Harborcreek, PA 16421	814-899-3171	http://www.harborcreektownship.org/contact.htm?recipient=1	Community	Government	Erie	Harborcreek, Township of
Harborcreek, Township of	http://www.harborcreektownship.org/	Rick Hall	Zoning Administrator	Township Building, 5601 Buffalo Road	Harborcreek, PA 16421	814-899-3171	http://www.harborcreektownship.org/contact.htm?recipient=1	Community	Government	Erie	Harborcreek, Township of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Harborcreek, Township of	http://www.harborcreektownship.org/	Timothy J. May	Vice-Chairperson of the Board of Supervisors	Township Building, 5601 Buffalo Road	Harborcreek, PA 16421	814-899-3171	http://www.harborcreektownship.org/contact.htm?recipient=1	Community	Government	Erie	Harborcreek, Township of
Harborcreek, Township of	http://www.harborcreektownship.org/	Joseph D. Peck	Board of Supervisors, Chairperson	Township Building, 5601 Buffalo Road	Harborcreek, PA 16421	814-899-3171	http://www.harborcreektownship.org/contact.htm?recipient=1	Community	Government	Erie	Harborcreek, Township of
Harborcreek, Township of	http://www.harborcreektownship.org/	Dean S. Pepicello	Superintendent of Planning /Zoning and Administration	Township Building, 5601 Buffalo Road	Harborcreek, PA 16421	814-899-3171	http://www.harborcreektownship.org/contact.htm?recipient=1	Community	Government	Erie	Harborcreek, Township of
Jacques Cousteau National Estuarine Research Reserve	http://www.icnerr.org/	Lisa Auermuller		130 Great Bay Boulevard	Tuckerton, New Jersey 08087	n/a	auernull@marine.rutgers.edu	Organization	Higher Ed/Watershed	Region	All of Lake Erie
Keep Pennsylvania Beautiful	http://keepabeautiful.org/	Shannon Reiter	President	105 West Fourth Street	Greensburg, Pennsylvania 15601	877-772-3673 Ext 110	sreiter@keepbeautiful.org	Organization	Higher Ed Coop	Region	Watershed
Lake City, Borough of		Lynn E. Becker	Borough Manager	Borough Building, 2350 Main Street	Lake City, PA 16423-1509	814-774-2116	n/a	Community	Government	Erie	Lake City, Borough of
Lake City, Borough of		Stacy Lawrence	Zoning Officer	Borough Building, 2350 Main Street	Lake City, PA 16423-1509	814-774-2116	n/a	Community	Government	Erie	Lake City, Borough of
Lake City, Borough of		The Honorable Joseph L. Legnasky	Mayor	Borough Building, 2350 Main Street	Lake City, PA 16423-1509	814-774-2116	n/a	Community	Government	Erie	Lake City, Borough of
Lawrence Park, Township of	http://www.lawrencepark.gov/office.com/	Kathleen A. Jackson	President, Township Commissioner	Township Building, 4230 Iroquois Avenue	Erie, PA 16511	814-899-2305	n/a	Community	Government	Erie	Lawrence Park, Township of
Lawrence Park, Township of	http://www.lawrencepark.gov/office.com/	Paul J. Jazenski	Zoning Administrator	Township Building, 4230 Iroquois Avenue	Erie, PA 16511	814-899-2305	n/a	Community	Government	Erie	Lawrence Park, Township of
Lawrence Park, Township of	http://www.lawrencepark.gov/office.com/	Mark Kiddo, Sr.	Public Safety	Township Building, 4230 Iroquois Avenue	Erie, PA 16511	814-899-2305	n/a	Community	Government	Erie	Lawrence Park, Township of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Lawrence Park, Township of	http://www.lawrencepark.gov/office.com/	Mark Kukla	Zoning Administrator	Township Building, 4230 Iroquois Avenue	Erie, PA 16511	814-899-3227	mikukla1@verizon.net	Community	Government	Erie	Lawrence Park, Township of
Mekis Construction		Ralph Gromely	Chief Surveyor	1595 Route 422 E	Fenelton, Pennsylvania 16034	724 321 0092	RGROMLEY@MEKISCONSTRUCTION.COM	Private	Private	Region	Consultant
Mercyhurst College	http://www.mercyhurst.edu/	Ray Buyce	Professor of Geology	501 East 38th Street, Zurn Building, Room 200	Erie, PA 16546	814-824-2000	rbuyce@mercyhurst.edu	Organization	Higher Ed/Watershed	Region	All of Lake Erie
Mercyhurst College	http://www.mercyhurst.edu/	J. Michael Campbell	Biology Professor	501 East 38th Street, Zurn Building, Room 110	Erie, PA 16546	(814) 824-2374	jcampbell@mercyhurst.edu	Organization	Higher Ed/Watershed	Region	All of Lake Erie
Millcreek, Township of	http://www.millcreektownship.com/	Richard P. Figaski	Chairman and Secretary of the Board of Supervisors	Township Building, 3608 West 26th Street	Erie, PA 16506	814-833-1111, ext. 312	rfigaski@millcreektownship.com	Community	Government	Erie	Millcreek, Township of
Millcreek, Township of	http://www.millcreektownship.com/	Joseph S. Kujawa	Vice Chairman of the Board of Supervisors	Township Building, 3608 West 26th Street	Erie, PA 16506	814-833-1111, ext. 313	jkujawa@millcreektownship.com	Community	Government	Erie	Millcreek, Township of
Millcreek, Township of	http://www.millcreektownship.com/	Julie Maggio	Assistant Zoning Administrator	Township Building, 3608 West 26th Street	Erie, PA 16506	n/a	n/a	Community	Government	Erie	Millcreek, Township of
Millcreek, Township of	http://www.millcreektownship.com/	Brian P. McGrath	Administrator Public Safety and Recreation	Township Building, 3608 West 26th Street	Erie, PA 16506	814-833-1111, ext. 311	bmcgrath@millcreektownship.com	Community	Government	Erie	Millcreek, Township of
Millcreek, Township of	http://www.millcreektownship.com/	Chuck Pierce	Zoning and Code Administrator	Township Building, 3608 West 26th Street	Erie, PA 16506	n/a	n/a	Community	Government	Erie	Millcreek, Township of
North East, Township of	http://northeastwp.org/	Dennis Culver	Supervisor	Township Building, 10300 West Main Road	North East, PA 16428	814-725-2419	admin@northeastwp.org	Community	Government	Erie	North East, Township of
North East, Township of	http://northeastwp.org/	Vernon Frye	Supervisor	Township Building, 10300 West Main Road	North East, PA 16428	n/a	admin@northeastwp.org	Community	Government	Erie	North East, Township of
North East, Township of	http://heiengr.com/	Doug Scieford	Township Engineer	Hill Engineering, Inc., 8 Gibson Street	North East, PA 16428	814-725-8659	dsceiford@heiengr.com	Community	Government	Erie	North East, Township of

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
North East, Township of		Susan Sprague	Zoning Administrator	Township Building, 10300 West Main Road	North East, PA 16428	n/a	n/a	Community	Government	Erie	North East, Township of
Penn State Erie, the Behrend College	http://psbehrend.psu.edu	Chuck Yeung	Interim Director	School of Science, Prischak Building, 4205 College Drive	Erie, Pennsylvania 16563	814-898-6105	cxy11@psu.edu	Organization	Higher Ed/Watershed	Region	Higher Ed/Watershed
Pennsylvania DEP	http://www.depweb.state.pa	Matthew Walderon	Coastal Resource Specialist	Rachel Carson State Office Building, 400 Market Street, 11th Fl.	Harrisburg, PA 17101	(717) 772-2196	mwalderon@pa.gov	State	Government	Pennsylvania	Government
Pennsylvania Emergency Management Agency	http://www.pema.state.pa.us	Tom Hughes	PA State Hazard Mitigation Officer	2605 Interstate Drive, P.O. Box 3221	Harrisburg, PA 17105-3221	(717) 651-2726	thughes@state.pa.us	State	Emergency Management	Pennsylvania	Pennsylvania
Pennsylvania Fish and Boat Commission	http://www.fish.state.pa.us/	Chuck Murray	Fisheries Biologist	Lake Erie Research, 7895 West Lake Road, P.O. Box 531	Fairview, PA 16415	(814) 474-1515	chamurray@pa.gov	State	Government	Pennsylvania	Pennsylvania
Pennsylvania Fish and Boat Commission	http://www.fish.state.pa.us/	Bob Nestor	Law Enforcement Manager	Northwest Region Office, 11528 State Highway 98	Meadville, PA 16335	(814) 337-0444	rnestor@pa.gov	State	Government	Pennsylvania	Pennsylvania
Pennsylvania Sea Grant	http://www.pserie.psu.edu/seagrant/seagindex.htm	Karla Kaczmarek	Coastal Outreach Specialist	Tom Ridge Environmental Center, 301 Peninsula Drive, Suite 3	Erie, Pennsylvania 16505	814-217-9020	kmk32@psu.edu	State	Government	Erie	Pennsylvania
Pennsylvania Sea Grant - NEMO	http://seagrant.psu.edu/nemo/about.htm	Sean D. Rafferty	Outreach Specialist	Tom Ridge Environmental Center, 301 Peninsula Drive, Suite 3	Erie, Pennsylvania 16505	814-217-9013	sdr138@psu.edu	State	Government	Erie	Pennsylvania
Presque Isle State Park		Harry Leslie	Manager	Presque Isle State Park Office, 301 Peninsula Dr, Suite 1	Erie, PA 16505	814-833-7424	hleslie@pa.gov	State	Government	Erie	Presque Isle State Park
Rabell Surveying & Engineering	www.rabellsurvey.com	Robert L. Rabell		10560 Walnut Street	Albion, Pennsylvania 16401	814-756-4384 (PA) 440-275-3581 (OH)	info@rabellsurvey.com	Private	Private	Erie	Consultant

Organization Name	Organization Website	Point of Contact	Title	Address	City, ST ZIP	Phone	Email	Group	Category	County/State/Watershed	Community
Springfield, Township of		Meredith Borstorff	Zoning Administrator	Township Building, 13300 Ridge Road	West Springfield, PA 16443	814-922-3274	n/a	Community	Community	Erie	Springfield, Township of
Springfield, Township of		Jeffrey Eaton	Chief Administrative Officer	Township Building, 13300 Ridge Road	West Springfield, PA 16443	814-922-3274	n/a	Community	Community	Erie	Springfield, Township of
Springfield, Township of		Blake Holliday	Chairman, Board of Supervisors	Township Building, 13300 Ridge Road	West Springfield, PA 16443	814-922-3274	n/a	Community	Community	Erie	Springfield, Township of
The Pew Charitable Trusts	http://www.pewtrusts.org/	Jennie Dean		One Commerce Square, 2005 Market Street, Suite 1700	Philadelphia, Pennsylvania 19103-7077	n/a	jdean@pewtrusts.org	Organization	Non-Profit	Region	All Lake Erie
U.S. Geological Survey	http://www.usgs.gov/	Jim Campbell	Director	Pennsylvania Water Science Center, 215 Limekiln Road	New Cumberland, PA 17070-2424	n/a	jcampbel@usgs.gov	Federal	Federal	Region	All Lake Erie
USACE, Buffalo District	http://www.lrb.usace.army.m	Laura Ortiz		1776 Niagara Street	Buffalo, NY 14207	716-879-4407	laura.v.ortiz@usace.army.mil	Federal	Engineering	Region	All Lake Erie
USACE, Buffalo District	http://www.lrb.usace.army.m	Robert Remmers		1776 Niagara Street	Buffalo, NY 14207	716-879-4277	Robert.w.remmers@usace.army.mil	Federal	Engineering	Region	All Lake Erie
Western Pennsylvania Conservancy Watershed Assistance Center	http://www.waterlandlife.org	Nick Pinizzotto		1067 Philadelphia Street, Suite 101	Indiana, Pennsylvania 15701	724-471-7202	npinizzotto@paconserv.org	Organization	Higher Ed Coop	Region	Watershed

Attachment A-2
Discovery Meeting Invitations



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Sandra L. Anderson
Supervisor, Township of Girard
Township Building
10140 Ridge Road
Girard, Pennsylvania 16417

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

Dear Ms. Anderson:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

A joint meeting to discuss both Discovery and Phase 2 of the Demonstration Project has been scheduled:

Date: July 18, 2012
Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Sandra L. Anderson
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

Date: July 19, 2012
Time: 8:30 am – noon
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for the Technical Workshop is community officials, engineers, and others from the scientific field. The Workshop is intended to accomplish the following goals:

- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Lisa Auermuller
JC NERR
130 Great Bay Boulevard
Tuckerton, New Jersey 08087

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

Dear Ms. Auermuller:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

A joint meeting to discuss both Discovery and Phase 2 of the Demonstration Project has been scheduled:

Date: July 18, 2012
Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, 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. The partnership and exchange of data

Lisa Auermuller
June 25, 2012
Page 2

between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

William Bailey
Planning Commission Chairman
Township of Girard
5101 Pieper Road
Girard, Pennsylvania 16417

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

Dear Mr. Bailey:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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William Bailey
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Lynn E. Becker
Borough Manager, Borough of Lake City
Borough Building
2350 Main Street
Lake City, Pennsylvania 16423-1509

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

Dear Ms. Becker:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
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The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Lynn E. Becker
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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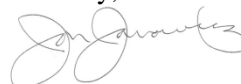
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- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Don Benczkowski
Environmental Planner 2
Coastal Resources Management Program
P.O. Box 8465
400 Market Street
Harrisburg, Pennsylvania 17105-8465

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

Dear Mr. Benczkowski:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Don Benczkowski

June 25, 2012

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Brian Benovic
Emergency Management Coordinator
Township of Harborcreek
Township Building
5601 Buffalo Road
Harborcreek, Pennsylvania 16421

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

Dear Mr. Benovic:

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Brian Benovic
June 25, 2012
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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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June 25, 2012

Meredith Borstorff
Zoning Administrator, Township of Springfield
Township Building
13300 Ridge Road
West Springfield, Pennsylvania 16443

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

Dear Ms. Borstorff:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Meredith Borstorff

June 25, 2012

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Earl Brown
District Manager
Erie County Conservation District
1927 Wager Road
Erie, Pennsylvania 16509

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

Dear Mr. Brown:

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Earl Brown
June 25, 2012
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Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Ray Buyce
Professor of Geology, Mercyhurst College
501 East 38th Street
Zurn Hall, Room 100
Erie, Pennsylvania 16546

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

Dear Mr. Buyce:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Ray Buyce
June 25, 2012
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

J. Michael Campbell
Biology Professor, Mercyhurst College
501 East 38th Street
Zurn Hall, Room 100
Erie, Pennsylvania 16546

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

Dear Mr. Campbell:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

A joint meeting to discuss both Discovery and Phase 2 of the Demonstration Project has been scheduled:

Date: July 18, 2012
Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

J. Michael Campbell

June 25, 2012

Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

Date: July 19, 2012
Time: 8:30 am – noon
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The target audience for the Technical Workshop is community officials, engineers, and others from the scientific field. The Workshop is intended to accomplish the following goals:

- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Jim Campbell
Director, U.S. Geological Survey
Pennsylvania Water Science Center
215 Limekiln Road
New Cumberland, Pennsylvania 17070-2424

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

Dear Mr. Campbell:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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 target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Jim Campbell
June 25, 2012
Page 2

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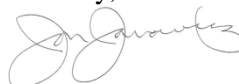
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We look forward to working with you to reduce the risks associated with coastal flooding and increase your community's resiliency for the long term. To learn more about Discovery, please visit <http://www.fema.gov/library> and search keywords "Discovery brochure" or contact David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Jim Cardman
Zoning Administrator, Township of Fairview
Township Building
7471 McCray Road
Fairview, Pennsylvania 16415

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

Dear Mr. Cardman:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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 Cardman
June 25, 2012
Page 2

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Armand Chimenti
Zoning Officer, City of Erie
Department of Public Works
626 State Street
Erie, Pennsylvania 16501

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

Dear Mr. Chimenti:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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: July 18, 2012
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Armand Chimenti

June 25, 2012

Page 2

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In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Connie Cruz
Parks Coordinator, Township of Harborcreek
Township Building
5601 Buffalo Road
Harborcreek, Pennsylvania 16421

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

Dear Ms. Cruz:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Connie Cruz
June 25, 2012
Page 2

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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June 25, 2012

Dennis Culver
Supervisor, Township of North East
Township Building
10300 West Main Road
North East, Pennsylvania 16428

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

Dear Mr. Culver:

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Dennis Culver
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

Date: July 19, 2012
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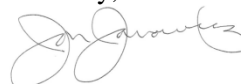
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- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Jennie Dean
The Pew Charitable Trusts
One Commerce Square
2005 Market Street, Suite 1700
Philadelphia, Pennsylvania 19103-7077

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

Dear Ms. Dean:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

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Jennie Dean
June 25, 2012
Page 2

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Harry R. Diz, Ph.D., P.E.
Professor, Department Chair
Gannon University
109 University Square
Zurn Science Center, Room 424
Erie, Pennsylvania 16541

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

Dear Mr. Diz:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Harry R. Diz, Ph.D., P.E.

June 25, 2012

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Julia Donahue
Coastal Zone Management Planner
Erie County Courthouse, Room 111
140 West 6th Street
Erie, Pennsylvania 16501

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

Dear Ms. Donahue:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Julia Donahue
June 25, 2012
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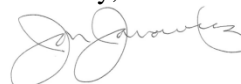
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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Jeffrey Eaton
Chief Administrative Officer
Township of Springfield
Township Building
13300 Ridge Road
West Springfield, Pennsylvania 16443

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

Dear Mr. Eaton:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Jeffrey Eaton
June 25, 2012
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Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Richard P. Figaski
Chairman and Secretary of the
Board of Supervisors, Township of Millcreek
Township Building
3608 West 26th Street
Erie, Pennsylvania 16506

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

Dear Mr. Figaski:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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 P. Figaski

June 25, 2012

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Vernon Frye
Supervisor, Township of North East
Township Building
10300 West Main Road
North East, Pennsylvania 16428

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

Dear Mr. Frye:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

A joint meeting to discuss both Discovery and Phase 2 of the Demonstration Project has been scheduled:

Date: July 18, 2012
Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Vernon Frye
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

Date: July 19, 2012
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The target audience for the Technical Workshop is community officials, engineers, and others from the scientific field. The Workshop is intended to accomplish the following goals:

- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Todd Geers
Director of Public Safety
Erie County Emergency Management
2880 Flower Road
Erie, Pennsylvania 16509

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

Dear Mr. Geers:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Todd Geers
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Andrew Glass
Director, Erie County Department of Health
606 West 2nd Street
Erie, Pennsylvania 16507

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

Dear Mr. Glass:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Andrew Glass
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Ralph Gromely
Chief Surveyor, Mekis Construction
1595 Route 422 East
Fenelton, Pennsylvania 16034

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

Dear Mr. Gromely:

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Ralph Gromely
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Rick Hall
Zoning Administrator, Township of Harborcreek
Township Building
5601 Buffalo Road
Harborcreek, Pennsylvania 16421

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

Dear Mr. Hall:

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Rick Hall
June 25, 2012
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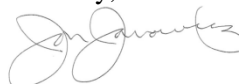
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FEMA

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Increasing Resilience Together

June 25, 2012

Blake Holliday
Chairman of the Board of Supervisors
Township of Springfield
Township Building
13300 Ridge Road
West Springfield, Pennsylvania 16443

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

Dear Mr. Holliday:

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Blake Holliday
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In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

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Time: 8:30 am – noon
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Address: 301 Peninsula Drive, Erie, PA

The target audience for the Technical Workshop is community officials, engineers, and others from the scientific field. The Workshop is intended to accomplish the following goals:

- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Becky Hosack
Zoning Administrator, Township of Girard
Township Building
10140 Ridge Road
Girard, Pennsylvania 16417

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

Dear Ms. Hosack:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

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Becky Hosack
June 25, 2012
Page 2

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Tom Hughes
Pennsylvania State Hazard Mitigation Officer
Pennsylvania Emergency Management Agency
2605 Interstate Drive
P.O. Box 3221
Harrisburg, Pennsylvania 17105-3221

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

Dear Mr. Hughes:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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 Hughes
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Kathleen A. Jackson
President of the Township Commissioners
Township of Lawrence Park
Township Building
4230 Iroquois Avenue
Erie, Pennsylvania 16511

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

Dear Ms. Jackson:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Kathleen A. Jackson
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Paul J. Jazenski
Zoning Administrator, Township of Lawrence Park
Township Building
4230 Iroquois Avenue
Erie, Pennsylvania 16511

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

Dear Mr. Jazenski:

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Paul J. Jazenski
June 25, 2012
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Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Karla Kaczmarek
Coastal Outreach Specialist, Pennsylvania Sea Grant
Tom Ridge Environmental Center
301 Peninsula Drive, Suite 3
Erie, Pennsylvania 16505

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

Dear Ms. Kaczmarek:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Karla Kaczmarek

June 25, 2012

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Risk Analysis Branch Chief
FEMA Region III

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FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Mark Kiddo, Sr.
Public Safety, Township of Lawrence Park
Township Building
4230 Iroquois Avenue
Erie, Pennsylvania 16511

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

Dear Mr. Kiddo:

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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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

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The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Mark Kiddo, Sr.
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

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- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
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Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
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June 25, 2012

Chris Kogelnik, P.E.
Township Engineer, Township of Girard
Herbert, Rowland & Grubic, Inc.
3755 East State Street
Hermitage, Pennsylvania 16148

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

Dear Mr. Kogelnik:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Chris Kogelnik, P.E.

June 25, 2012

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Peter D. Krauss
Supervisor, Township of Fairview
Township Building
7471 McCray Road
Fairview, Pennsylvania 16415

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

Dear Mr. Krauss:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Peter D. Krauss

June 25, 2012

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Joseph S. Kujawa
Vice Chairman of the Board of Supervisors
Township of Millcreek
Township Building
3608 West 26th Street
Erie, Pennsylvania 16506

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

Dear Mr. Kujawa:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Joseph S. Kujawa
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Mark Kukla
Zoning Administrator
Township of Lawrence Park
Township Building
4230 Iroquois Avenue
Erie, Pennsylvania 16511

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

Dear Mr. Kukla:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Mark Kukla
June 25, 2012
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Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Mark Kwitowski
Director, City of Erie Sewer Department
626 State Street
Erie, Pennsylvania 16501

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

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Mark Kwitowski
June 25, 2012
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The target audience for the Technical Workshop is community officials, engineers, and others from the scientific field. The Workshop is intended to accomplish the following goals:

- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Stacy Lawrence
Zoning Officer, Borough of Lake City
Borough Building
2350 Main Street
Lake City, Pennsylvania 16423-1509

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

Dear Ms. Lawrence:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

A joint meeting to discuss both Discovery and Phase 2 of the Demonstration Project has been scheduled:

Date: July 18, 2012
Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Stacy Lawrence
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

The Honorable Joseph L. Legnasky
Mayor, Borough of Lake City
Borough Building
2350 Main Street
Lake City, Pennsylvania 16423-1509

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

Dear Mayor Legnasky:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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 Joseph L. Legnasky

June 25, 2012

Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Harry Leslie
Manager, Presque Isle State Park
Presque Isle State Park Office
301 Peninsula Drive, Suite 1
Erie, Pennsylvania 16505

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

Dear Mr. Leslie:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Harry Leslie
June 25, 2012
Page 2

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Julie Maggio
Assistant Zoning Administrator
Township of Millcreek
Township Building
3608 West 26th Street
Erie, Pennsylvania 16506

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

Dear Ms. Maggio:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Julie Maggio
June 25, 2012
Page 2

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Marti Martz
Pennsylvania Sea Grant, Centers for
Ocean Sciences Education Excellence (Great Lakes)
Tom Ridge Environmental Center
301 Peninsula Drive, Suite 3
Erie, Pennsylvania 16505

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

Dear Ms. Martz:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Marti Martz
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Timothy J. May
Vice-Chairperson of the Board of Supervisors
Township of Harborcreek
Township Building
5601 Buffalo Road
Harborcreek, Pennsylvania 16421

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

Dear Mr. May:

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The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Timothy J. May
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

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- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Brian P. McGrath
Administrator of Public Safety and Recreation
Township of Millcreek
Township Building
3608 West 26th Street
Erie, Pennsylvania 16506

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

Dear Mr. McGrath:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

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Brian P. McGrath

June 25, 2012

Page 2

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Douglas E. Mitchell
Director of Public Works, City of Erie
Department of Public Works
626 State Street, Room 504
Erie, Pennsylvania 16501

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

Dear Mr. Mitchell:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Douglas E. Mitchell

June 25, 2012

Page 2

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Chuck Murray
Fisheries Biologist
Pennsylvania Fish and Boat Commission
Lake Erie Research
7895 West Lake Road, P.O. Box 531
Fairview, Pennsylvania 16415

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

Dear Mr. Murray:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Chuck Murray
June 25, 2012
Page 2

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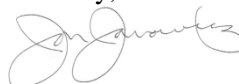
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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Bob Nestor
Law Enforcement Manager
Pennsylvania Fish and Boat Commission
Northwest Region Office
11528 State Highway 98
Meadville, Pennsylvania 16335

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

Dear Mr. Nestor:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Bob Nestor
June 25, 2012
Page 2

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 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:

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Laura Ortiz
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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FEMA

RiskMAP
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June 25, 2012

Scott A. Palermo, III
Erie Area Water Ecology Committee
4519 Miller Avenue
Erie, Pennsylvania 16509

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

Dear Mr. Palermo:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

A joint meeting to discuss both Discovery and Phase 2 of the Demonstration Project has been scheduled:

Date: July 18, 2012
Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, 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. The partnership and exchange of data

Scott A. Palermo, III
June 25, 2012
Page 2

between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

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- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Joseph D. Peck
Chairperson of the Board of Supervisors
Township of Harborcreek
Township Building
5601 Buffalo Road
Harborcreek, Pennsylvania 16421

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

Dear Mr. Peck:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Joseph D. Peck
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Dean S. Pepicello
Superintendent of Planning, Zoning
and Administration, Township of Harborcreek
Township Building
5601 Buffalo Road
Harborcreek, Pennsylvania 16421

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

Dear Mr. Pepicello:

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Dean S. Pepicello

June 25, 2012

Page 2

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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June 25, 2012

Chuck Pierce
Zoning and Code Administrator
Township of Millcreek
Township Building
3608 West 26th Street
Erie, Pennsylvania 16506

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

Dear Mr. Pierce:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Chuck Pierce
June 25, 2012
Page 2

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Nick Pinizzotto
Western Pennsylvania Conservancy
Watershed Assistance Center
1067 Philadelphia Street, Suite 101
Indiana, Pennsylvania 15701

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

Dear Mr. Pinizzotto:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Nick Pinizzotto

June 25, 2012

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Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Mat Puz
Erie County Department of Planning
Erie County Courthouse, Room 111
140 West 6th Street
Erie, Pennsylvania 16501

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

Dear Mr. Puz:

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Mat Puz
June 25, 2012
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Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

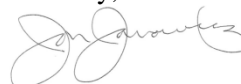
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- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
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- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Robert L. Rabell
Rabell Surveying & Engineering
10560 Walnut Street
Albion, Pennsylvania 16401

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

Dear Mr. Rabell:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

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Robert L. Rabell
June 25, 2012
Page 2

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In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Sean D. Rafferty
Outreach Specialist, Pennsylvania Sea Grant
NEMO
Tom Ridge Environmental Center
301 Peninsula Drive, Suite 3
Erie, Pennsylvania 16505

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

Dear Mr. Rafferty:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Sean D. Rafferty

June 25, 2012

Page 2

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Shannon Reiter
President, Keep Pennsylvania Beautiful
105 West Fourth Street
Greensburg, Pennsylvania 15601

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

Dear Ms. Reiter:

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Shannon Reiter
June 25, 2012
Page 2

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 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:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Robert Remmers

June 25, 2012

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Dale Robinson
Emergency Management Coordinator
Erie County Public Safety
2880 Flower Road
Erie, Pennsylvania 16509

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

Dear Mr. Robinson:

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Dale Robinson
June 25, 2012
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Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Ray Schreckengost
Director, Erie Western Pennsylvania Port Authority
100 State Street, Suite 203
Erie, Pennsylvania 16501

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

Dear Mr. Schreckengost:

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Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, 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. The partnership and exchange of data

Ray Schreckengost

June 25, 2012

Page 2

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In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
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Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Doug Scieford
Township Engineer, Township of North East
Hill Engineering, Inc.
8 Gibson Street
North East, Pennsylvania 16428

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

Dear Mr. Scieford:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

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Doug Scieford
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

The Honorable Joseph E. Sinnott
Mayor, City of Erie
City Hall
626 State Street
Erie, Pennsylvania 16501

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

Dear Mayor Sinnott:

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The Honorable Joseph E. Sinnott

June 25, 2012

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

David Skellie
Pennsylvania Sea Grant, Centers for
Ocean Sciences Education Excellence (Great Lakes)
Tom Ridge Environmental Center
301 Peninsula Drive, Suite 3
Erie, Pennsylvania 16505

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

Dear Mr. Skellie:

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David Skellie
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Judy Schroeck
Executive Director
Fairview Parks & Recreation
Township Building
7471 McCray Road
Fairview, Pennsylvania 16415

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

Dear Ms. Schroeck:

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Judy Schroeck
June 25, 2012
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Risk Analysis Branch Chief
FEMA Region III

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FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Dan Fitzpatrick
Pennsylvania State NFIP Coordinator
Department of Community & Economic Development
400 North Street, 4th Floor
Harrisburg, Pennsylvania 17120-0225

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

Dear Mr. Fitzpatrick:

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Dan Fitzpatrick
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Risk Analysis Branch Chief
FEMA Region III

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FEMA

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June 25, 2012

Susan Sprague
Zoning Administrator, Township of North East
Township Building
10300 West Main Road
North East, Pennsylvania 16428

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

Dear Ms. Sprague:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

A joint meeting to discuss both Discovery and Phase 2 of the Demonstration Project has been scheduled:

Date: July 18, 2012
Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Susan Sprague
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

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- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Jon Tushak
City Engineer, City of Erie
Department of Public Works
626 State Street, Room 504
Erie, Pennsylvania 16501

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

Dear Mr. Tushak:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Jon Tushak
June 25, 2012
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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Julie Vastine
Alliance of Aquatic Resource Monitoring
Environmental Studies Department
Holland Union Building
P.O. Box 1773
Carlisle, Pennsylvania 17013

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

Dear Ms. Vastine:

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Julie Vastine
June 25, 2012
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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

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Increasing Resilience Together

June 25, 2012

Paul Vojtek
Director, Erie Water Works
340 West Bayfront Parkway
Erie, Pennsylvania 16507

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

Dear Mr. Vojtek:

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Paul Wojtek
June 25, 2012
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Matthew Walderon
Coastal Resource Specialist, Pennsylvania DEP
Rachel Carson State Office Building
400 Market Street, 11th Floor
Harrisburg, Pennsylvania 17101

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

Dear Mr. Walderon:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Matthew Walderon

June 25, 2012

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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Jake Welsh
Director, Erie County Department of Planning
Erie County Courthouse, Room 111
140 West 6th Street
Erie, Pennsylvania 16501

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

Dear Mr. Welsh:

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Jake Welsh
June 25, 2012
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The target audience for the Technical Workshop is community officials, engineers, and others from the scientific field. The Workshop is intended to accomplish the following goals:

- Share the Great Lakes Coastal Flood Study methodology and provide an overview of the data collected to date for the Great Lakes;
- Discuss the analytical methods and data needs to effectively assess and map flood hazards associated with Lake Erie coastal flooding;
- Engage State and local technical experts in determining the best approach in producing updated flood maps that accurately and precisely reflect flood risk; and
- Establish the basis for future dialogue between FEMA, State, and local communities regarding study execution and public review of data and results.

Please RSVP to the Technical Workshop with a phone call to Heidi Carlin at (410) 725-7414 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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 David Bollinger at (215) 931-5561 or david.bollinger@fema.dhs.gov. We look forward to seeing you at the upcoming Discovery/Phase 2 Demonstration Project Meeting and/or Technical Workshop.

Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

George Willis
Township Engineer, Township of Fairview
Urban Engineers, Inc.
1319 Sassafras Street
Erie, Pennsylvania 16501

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

Dear Mr. Willis:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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); promote increased awareness and understanding of flood risk; and increase community engagement 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.

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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

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Time: 4:00 pm – 6:00 pm
Location: Tom Ridge Environmental Center (TREC)
Address: 301 Peninsula Drive, Erie, PA

The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

George Willis
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

In addition to the Discovery and Phase 2 Demonstration Project Meeting, we will be holding a Technical Workshop in your area on the following day and at the same location:

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Chuck Yeung
Interim Director, Penn State Erie, The Behrend College
School of Science, Prischak Building
4205 College Drive
Erie, Pennsylvania 16563

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

Dear Mr. Yeung:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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.

As part of the Lake Erie Coastal Flood Study, RAMPP (Risk Assessment, Mapping, and Planning Partners) has been contracted by FEMA to perform Discovery for all Lake Erie coastal communities within the States of Ohio, Pennsylvania, New York, and Michigan. RAMPP has also been tasked with conducting an Early Demonstration Project in Erie County, Pennsylvania to help further refine the methodology used to conduct the broader Great Lakes analysis and mapping effort.

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The target audience for this meeting is community officials; building, zoning, and planning officials; local floodplain administrators and emergency managers, engineers, and conservation districts. At the meeting, we will provide an overview of the overall basin wide and Erie County project approach, and the results of the proposed revised methodologies for use in the broader Great Lakes Coastal Flood Study. The meeting will provide an overview of FEMA's Risk MAP program and the Discovery process, allow us to review with you our request for the exchange of coastal flood risk and hazard mitigation data, and to learn more

Chuck Yeung
June 25, 2012
Page 2

about your community's coastal flood hazard risks and needs. The partnership and exchange of data between FEMA, the State of Pennsylvania, and your community is vital to the success of identifying flood risks and needs that may impact your citizens and planning actions to mitigate those risks.

In addition, we will review the coastal flood risk data we have gathered to date, 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 the Discovery/Phase 2 Demonstration Project Meeting with a phone call to Andy Brunt at (703) 849-0451 or email to LakeErieCoastalFloodStudy@rampp-team.com no later than July 13, 2012.

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Andrew Zemba
Associate Director, Coastal Resources
Management Program under the
Pennsylvania Department of Environmental Protection
P.O. Box 2063
400 Market Street, 2nd Floor
Harrisburg, Pennsylvania 17105

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

Dear Mr. Zemba:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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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Andrew Zemba
June 25, 2012
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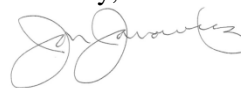
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Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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



FEMA

RiskMAP
Increasing Resilience Together

June 25, 2012

Andy Zimmerman
Manager, Office of Code Enforcement
City of Erie
Department of Public Works
626 State Street
Erie, Pennsylvania 16501

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

Dear Mr. Zimmerman:

The Federal Emergency Management Agency (FEMA) will be hosting meetings in Erie, Pennsylvania on July 18th and 19th to collaborate with local officials and local technical experts on Lake Erie Coastal Flood Risk. 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, so that communities can better understand their risk and take action to mitigate the risk. Please refer to the 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 Zimmerman

June 25, 2012

Page 2

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Sincerely,



Jon Janowicz, P.E.
Risk Analysis Branch Chief
FEMA Region III

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

Attachment A-3

Information Exchange Session Presentation

No Information Exchange Session was held.

Attachment B: Data Collection

Attachment B-1: Data Request Forms

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	County of Erie Dept. of Public Safety Emergency Management
Name:	Dak Robinson
Title:	Emergency Management Coordinator
Address:	2880 Flower Road. Erie, PA 16509
E-mail:	d Robinson @ ecdops.org
Phone:	814-451-7921
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.

Base Map Data		<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>
Coastal Data			
<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 sea level	<input type="checkbox"/> <i>Hard copy</i>	<input type="checkbox"/> <i>Digital</i>
Other Data			
<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:

Historical Flood Data

Are you aware of any 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:

*FEMA Approved
Haz-mit Plan.*

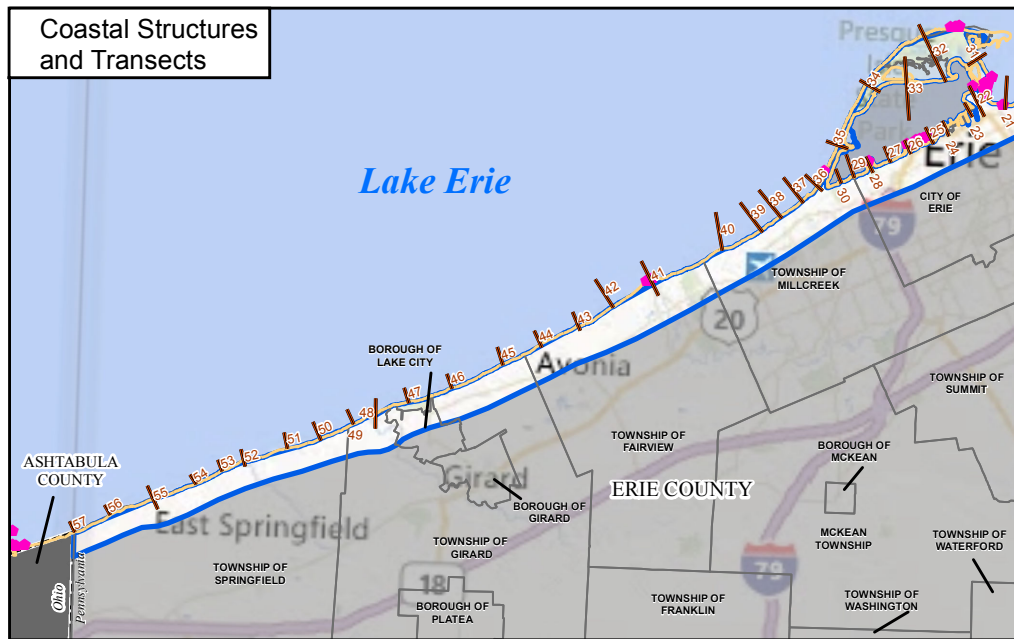


Flood Mitigation Information

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 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:
Does your community have experience with flood disasters and flood disaster recovery?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	If yes, please explain: <i>June 30, 2009 Flash Flooding approx. 4" of rain in 1 hour. Flooding to n. 3/4 of I-70. No Federal Disaster Aid was provide other than SBA Loans.</i>

Attachment C: Discovery Maps

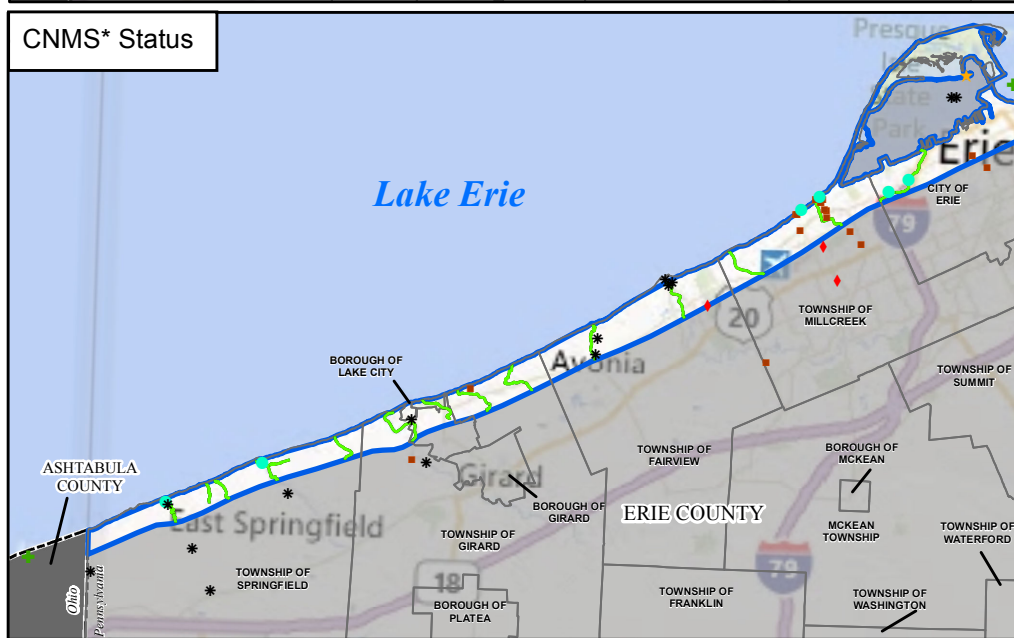
Coastal Structures and Transects



Average Annual Loss



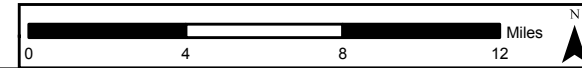
CNMS* Status



Community	NFIP Total Losses				Total Payments (\$)
	Total Losses	Closed Losses	Open Losses	CWOP Losses	
Erie, City of	50	39	0	11	374,943
Fairview, Township of	20	12	0	8	161,603
Girard, Township of	22	18	0	4	243,072
Harborcreek, Township of	21	14	0	7	264,741
Lake City, Borough of	7	7	0	0	306,396
Lawrence Park, Township of	0	0	0	0	0
Millcreek, Township of	133	100	0	33	1,501,202
North East, Township of	148	116	0	32	778,625
Springfield, Township of	10	3	0	7	26,255

Declared Disasters					
State	Date	County	Type	Incident Type	Title
PA	06/23/1972	Erie	DR	Storms, Flooding	Tropical Storm Agnes
PA	06/03/1985	Erie	DR	Severe Storms	Severe Storms & Flooding
PA	01/21/1996	Erie	DR	Flooding	Severe Storms & Flooding
PA	09/14/2004	Erie	DR	Storms, Flooding	Tropical Storm Frances

Hazard Mitigation Action				
Name of Hazard Mitigation Plan	Plan Approval Date	Plan Expiration Date	Identified Hazard Mitigation Action	Community
Erie County 2012 Hazard Mitigation Plan	03/20/2012	03/20/2017	Purchase and installation of generators and hand held radios for Emergency Operations Center (completed). Obtain necessary equipment for pre-wetting of salt and anti-skid materials (continuous action).	Girard, Township of
Erie County 2012 Hazard Mitigation Plan	03/20/2012	03/20/2017	Request front-end loader for clean-up efforts, PLC's for sewer lift station, and hand-held radios (continuous action).	Lake City, Borough of



MAP SYMBOLOLOGY

LEGEND

- ◆ Dam
- LOMC
- Transect
- Lake Erie Shoreline (HUC 8)
- Discovery Study Area
- Surrounding County
- County Boundary
- Municipal Boundary

- ★ Wave Gage
- ★ Repetitive Loss
- + Port
- ★ USGS Gage
- ★ Coastal Structure

ERIE 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

*CNMS - Coordinated Needs Management Strategy

COASTAL STUDY LOCATOR



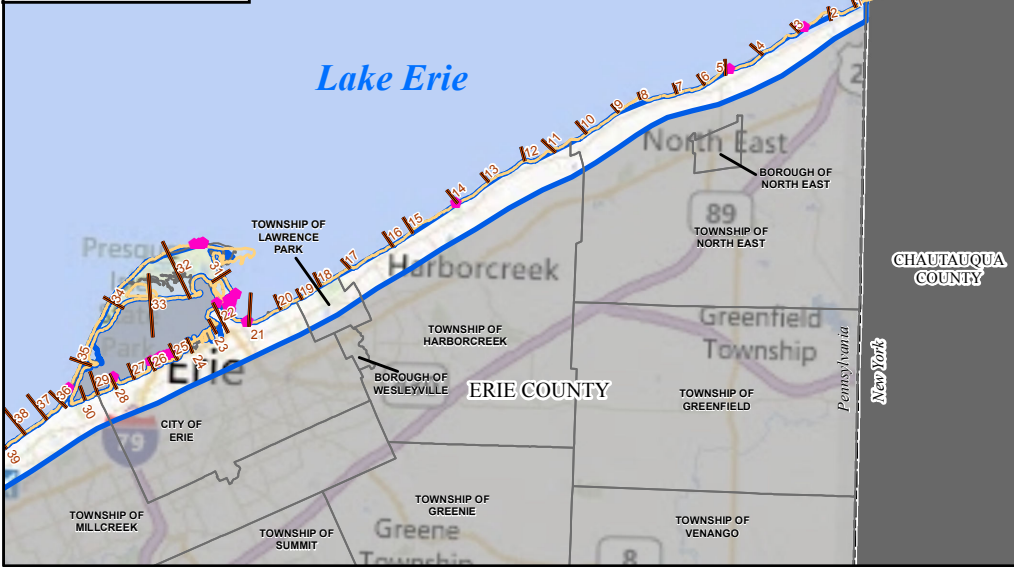
NATIONAL FLOOD INSURANCE PROGRAM Final Discovery Map

LAKE ERIE COASTAL STUDY Erie County, Pennsylvania (Map 1 of 2)

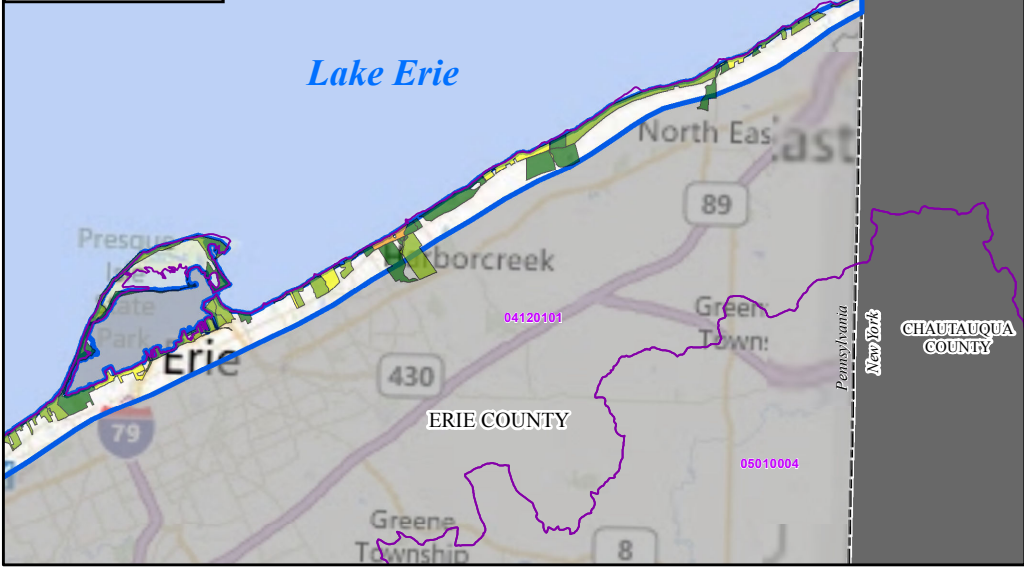
Erie, City of
Fairview, Township of
Girard, Township of
Harborcreek, Township of
Lake City, Borough of
Lawrence Park, Township of
Millcreek, Township of
North East, Township of
Springfield, Township of



Coastal Structures and Transects



Average Annual Loss



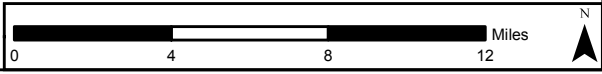
CNMS* Status



NFIP Total Losses					
Community	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments (\$)
Erie, City of	50	39	0	11	374,943
Fairview, Township of	20	12	0	8	161,603
Girard, Township of	22	18	0	4	243,072
Harborcreek, Township of	21	14	0	7	264,741
Lake City, Borough of	7	7	0	0	306,396
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PA	01/21/1996	Erie	DR	Flooding	Severe Storms & Flooding
PA	09/14/2004	Erie	DR	Storms, Flooding	Tropical Storm Frances

Hazard Mitigation Action				
Name of Hazard Mitigation Plan	Plan Approval Date (Final)	Plan Expiration Date	Identified Hazard Mitigation Action	Community
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Erie County 2012 Hazard Mitigation Plan	06/11/2012	06/11/2017	Request front-end loader for clean-up efforts, PLC's for sewer lift station, and hand-held radios (continuous action)	Lake City, Borough of



MAP SYMOLOGY

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- Lake Erie Shoreline (HUC 8)
- Discovery Study Area
- Surrounding County
- County Boundary
- Municipal Boundary

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Total Average Annualized Loss per Census Block

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- \$250,001 - \$750,000
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CNMS* VALIDATION STATUS

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- VALID

*CNMS - Coordinated Needs Management Strategy

COASTAL STUDY LOCATOR



NATIONAL FLOOD INSURANCE PROGRAM Final Discovery Map

LAKE ERIE COASTAL STUDY Erie County, Pennsylvania (Map 2 of 2)

Erie, City of
Fairview, Township of
Girard, Township of
Harborcreek, Township of
Lake City, Borough of

Lawrence Park, Township of
Millcreek, Township of
North East, Township of
Springfield, Township of



Attachment D: Discovery Meeting

Attachment D-1: Meeting Agenda

Attachment D-2: Presentation

Attachment D-3: Sign-in Sheets

Attachment D-4: Meeting Summary

Attachment D-5: Meeting Evaluation Forms

Attachment D-6: Mitigation Action Form

Attachment D-7: Discovery Map Comments from Meeting

Attachment D-1

Meeting Agenda

GREAT LAKES COASTAL FLOOD STUDY
PENNSYLVANIA DEMONSTRATION PROJECT AND DISCOVERY MEETING
JULY 18, 2012 ■ 4:00 PM – 6:00 PM EDT

<u>Item No.</u>	<u>Title/Description</u>	<u>Time Allotted</u>	<u>Presenter/ Facilitator</u>
1.	Welcome and Meeting Purpose <ul style="list-style-type: none"> ▪ Introductions ▪ Expected Outcomes 	5 minutes	Dave Bollinger FEMA Region III Dave Skellie PA Sea Grant
PART 1: ERIE, PA DEMONSTRATION PROJECT			
2.	Erie, PA Demonstration Project <ul style="list-style-type: none"> ▪ Methodology ▪ Status ▪ Next Steps 	20 minutes	Jeff Gangai RAMPP
PART 2: DISCOVERY			
3.	Great Lakes Coastal Study Overview	5 minutes	Dave Bollinger FEMA Region III
4.	Risk MAP Overview <ul style="list-style-type: none"> ▪ Discovery Overview/Products ▪ Risk Products ▪ Discovery Maps 	5 minutes	Amelia Vincent RAMPP
5.	Data Collection	5 minutes	Amelia Vincent RAMPP
6.	Mitigation and its Role in the Study Process <ul style="list-style-type: none"> ▪ Hazard Mitigation Plan ▪ Recommended Higher Standards ▪ Activities in Erie County ▪ Mitigation Strategies ▪ Grant Programs ▪ Risk Communication 	15 minutes	Dave Bollinger FEMA Region III
7.	Discussion Session <ul style="list-style-type: none"> ▪ Discuss local issues regarding erosion and flooding ▪ Steps taken to reduce risk ▪ Obstacles for future risk reduction ▪ Listen to the community perspective about flood risk and risk reduction ▪ Next steps 	40 minutes	Dave Bollinger FEMA Region III
8.	Wrap-up and Adjourn <ul style="list-style-type: none"> ▪ Recap schedule, milestones, and next steps 	10 minutes	Dave Bollinger FEMA Region III

Attachment D-2 Presentation



Lake Erie Demonstration Project/Discovery Meeting Erie County, Pennsylvania

July 18, 2012

4:00 pm – 6:00 pm

Tom Ridge Environmental Center
301 Peninsula Drive, Erie, PA

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Welcome and Introductions

FEMA Region III

- Jon Janowicz, Risk Analysis Branch Chief
- David Bollinger, Hazard Mitigation Outreach Coordinator

Pennsylvania Sea Grant

- Dave Skellee, Coastal Land Use & Economic Specialist

Risk Assessment, Mapping, and Planning Partners (RAMPP)

- Amelia Vincent, PE, CFM
- Jeff Gangai, CFM
- Fred Knight, CFM

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Agenda

- Welcome and Introductions
- Part 1: Lake Erie Coastal Demonstration Project
- Part 2: Discovery
 - Risk MAP Overview
 - Great Lakes Coastal Study
 - Data Collection
 - Mitigation and its Role in the Study Process
 - Communicating Risk
 - Discussion Session
 - Wrap up

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Lake Erie Coastal Demonstration Project

Jeff Gangai, CFM
Fred Knight, CFM

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Lake Erie Coastal Demonstration Project

- Initial project overview Webinar held June 7, 2012
 - Introduced Great Lakes Coastal Flood Study
 - Reviewed Lake Erie basin wide storm modeling
 - Described new Great Lakes coastal methods
 - Introduced Demonstration Project
- Today
 - Summarize Lake Erie Coastal Study
 - Review Demonstration Project goals
 - Discuss initial findings

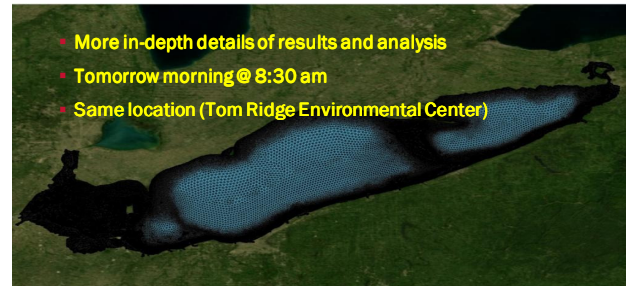
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Great Lakes Coastal Flood Study Technical Workshop

- More in-depth details of results and analysis
- Tomorrow morning @ 8:30 am
- Same location (Tom Ridge Environmental Center)



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Great Lakes Coastal Flood Study Overview



- Current FIRMs are outdated due to the age of data and methodologies – many date to 1970s
- Changes in NFIP policies and methodologies have since occurred, creating the need for an update
- New methods have been developed
 - 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 - 2010)
 - Methods will be incorporated into official FEMA guidance – Appendix D.3
- Study includes entire U.S. Great Lakes coastline

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Lake Erie Study Basin Characteristics



- Fourth largest in surface area and smallest in volume and shallowest among Great Lakes
- About 10,000 square miles; average depth 62 feet (maximum 210 feet)
- Ninety-five percent of Lake Erie's total inflow is supplied through Detroit River
- Lake outflows into Lake Ontario through Niagara River and Welland Canal
- Lake Erie develops more extensive ice cover than other lakes
- Seiching modes are very energetic in Lake Erie

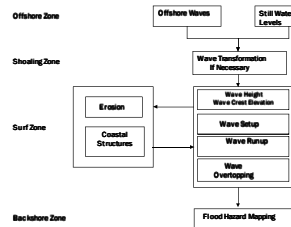
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Lake Erie Study Overview



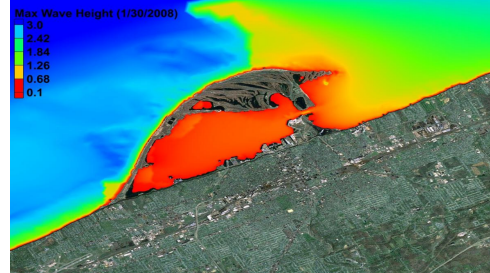
- Storm Lake Level Analysis data - CSTORM - Summer 2012
- Overland Wave Analysis (Transects)
 - Field Reconnaissance
 - Storm induced Erosion
 - Wave Runup and Overtopping
 - Inland wave height profiles
- Coastal hazard mapping
- Flood Insurance Rate Maps (FIRMs)



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Erie Demonstration Project Study Area



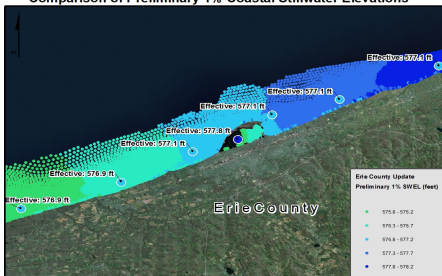
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Effective Comparison Overview



Region III, Erie County, PA
Comparison of Preliminary 1% Coastal Stillwater Elevations



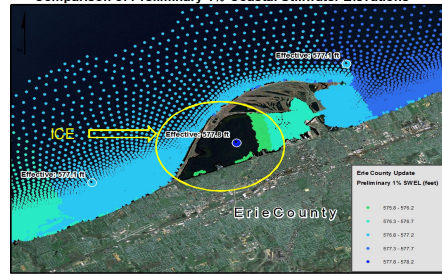
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City Of Erie Effective Comparison



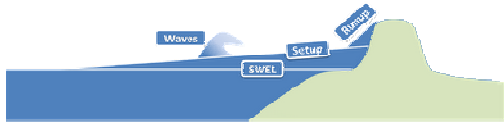
Region III, Erie County, PA
Comparison of Preliminary 1% Coastal Stillwater Elevations



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CSHORE Wave Setup and Runup Contributions



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Erie County, PA Demonstration Project Overview



- RAMPP is conducting an early demonstration project for 20 miles of Erie County, PA shoreline
- One of the first implementations of the new study methods and precedes the remainder of the Great Lakes coastal counties
- Test and refine the methodology and develop best practices, to inform the remainder of the GLCFS



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Onshore Wave Analysis



Wave Runup



Overland Wave Propagation



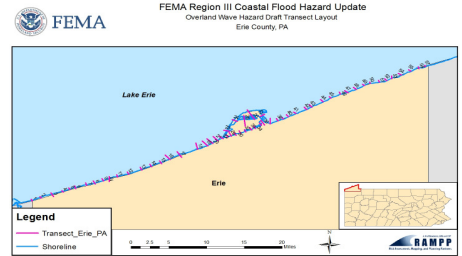
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Great Lakes Coastal Flood Study Draft Transect Layout



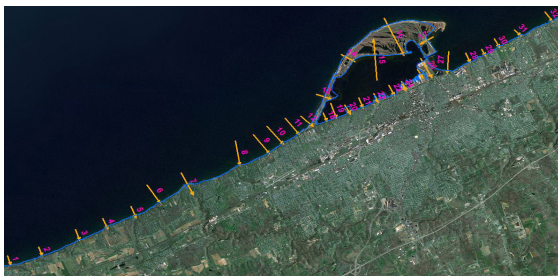
- 57 transects
- 63 miles of shoreline along Lake Erie



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Overland Wave Demonstration Project



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Overland Wave Demonstration Project



- Demonstration project results will:
 - Inform level of effort required to complete analysis for each county
 - Identify any data gap needs
 - Inform the methodology for effectiveness
 - Inform guidance needed in the G&S

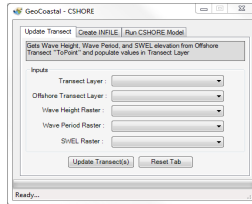
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Preliminary Conclusions



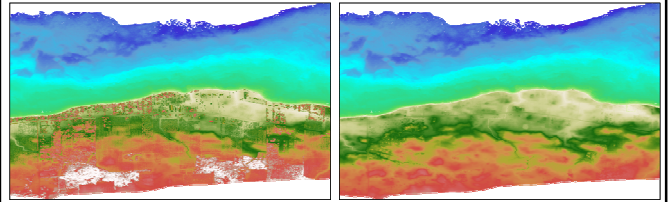
- **Demonstration Project Lessons Learned**
 - Effort can be cumbersome
 - Increased level of effort than previous methods
 - More data processing and more model runs
 - Automation is key



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Bare Earth Bathymetry/Topography DEMs LiDAR

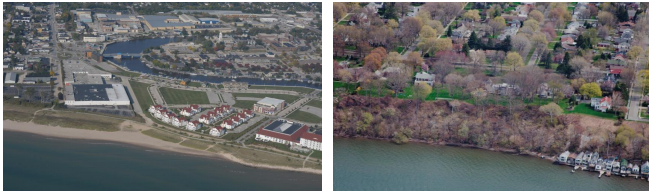


DEM = Digital Elevation Model

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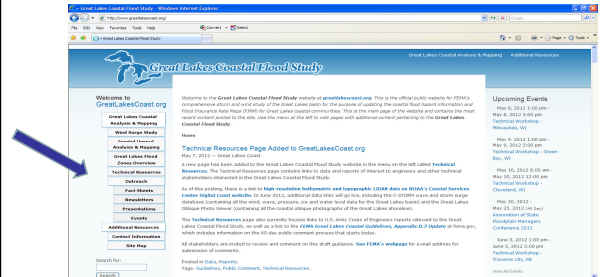
Oblique Aerials



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Technical Resources



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3-D Visualization Tool to Communicate Flood Risk



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Lake Erie Demonstration Project Questions and Discussion



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Lake Erie Discovery

Dave Bollinger, FEMA Region III
Amelia Vincent, RAMPP



Great Lakes Coastal Flood Study Risk MAP Program Overview



- Risk MAP
 - Mapping – Flood hazard and risk identification
 - Assessment – Risk assessment tools
 - Planning – Hazard mitigation planning
- Risk MAP Vision
 - Deliver quality data
 - Increase public awareness of flood risk
 - Encourage local/regional actions that reduce risk



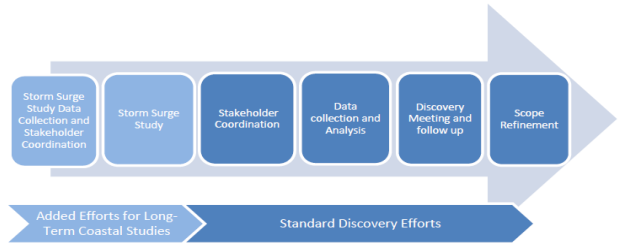
Great Lakes Coastal Flood Study Lake Erie Discovery



- Schedule of Activities
 - Identify Draft Transect Locations – Completed
 - Research available data – Completed
 - Prepare draft Discovery Maps and Reports – July 2012
 - Facilitate Discovery Meetings – July/August 2012
 - Establish inventory of coastal structures based on oblique imagery – August/September 2012
 - Final Discovery Report and Maps – November 2012
 - Create library of digital data – November 2012



Great Lakes Coastal Flood Study Discovery Process Overview



Great Lakes Coastal Flood Study Discovery Process Overview



- Discovery is collaboration with communities to understand their needs and interests. Our Risk MAP goal is to initiate flood mitigation projects or risk discussions, which includes:
 - Data
 - Historical flooding information
 - Existing flood hazard data
 - Mitigation activities and strategies
 - Hazard risk assessments, for example, vulnerable assets
 - Collaboration
 - Communities
 - Regional planning entities
 - Non-governmental organizations
 - State agencies and Other Federal agencies



Great Lakes Coastal Flood Study Discovery Products and Results



- Discovery Report
 - Including summary of data, analysis, meetings, and action items or decisions
- Discovery Map
 - Visual representation of meeting outcomes and feedback from stakeholders
- Project Study Areas
- Index of FIRM Panels to be Updated
- National Metrics



Draft Discovery Report
Coastal Flood Study, Lake Erie, 2012

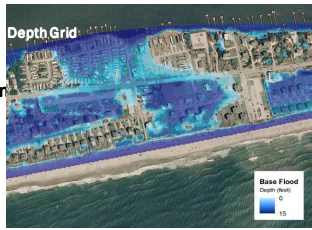
© 2012 FEMA



Great Lakes Coastal Flood Study Flood Risk Products



- Changes Since Last FIRM
- Flood Depth Grids
- Flood Risk Assessment (HAZUS) – Multi-Hazard Estimation Losses



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Great Lakes Coastal Flood Study Flood Risk Products

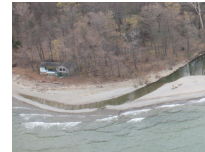


Erosion



Girard Township, PA

Lake Levels



Twelvemile Creek
Harborcreek, PA

Shoreline Feature
Dataset



Presque Isle State Park, PA



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Great Lakes Coastal Flood Study Data Collected



- Bathymetry data – NOAA National Geophysical Data Center
- FIS Reports
- Federal and State disaster information
- Repetitive Loss Data
- Stream/wave gage locations
- Erie County 2012 Hazard Mitigation Plans
- Erie County Comprehensive Plan



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Great Lakes Coastal Flood Study Data Collected



- Flood insurance policies and claim information
- Letters of Map Amendment
- Average Annualized Loss (AAL) information
- Census data
- Shoreline Feature Database
- Data from other Federal/State agencies:
 - Erosion rates
 - Pennsylvania DEP imagery & LIDAR
 - (URL: <http://www.pasda.psu.edu>)
 - U.S. Army Corps of Engineers Oblique imagery



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Great Lakes Coastal Flood Study Data Needed



- Bridge Replacements
- New Construction
- Unmapped Areas Which Flood
- Local Flooding Problem Areas



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Great Lakes Coastal Flood Study Draft Discovery Map

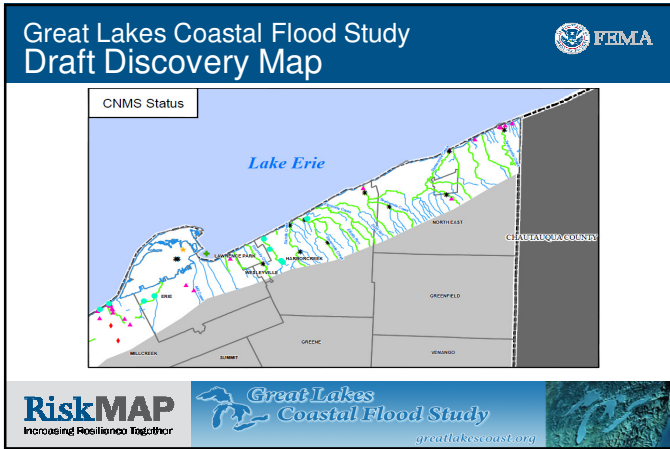
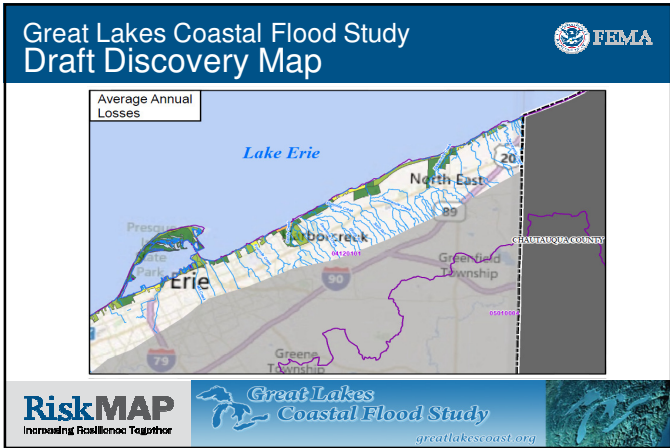
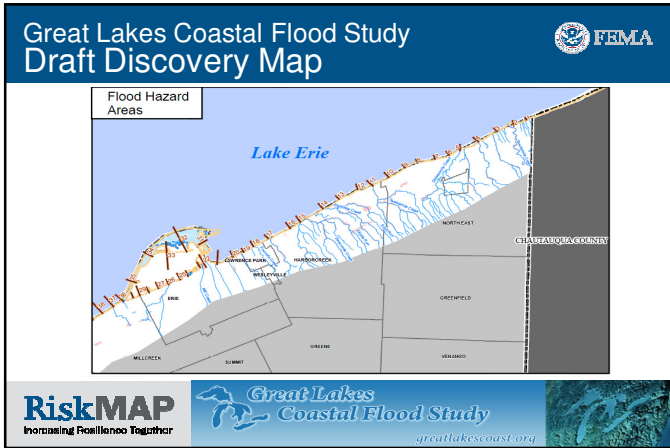


MAP SYMBOLOLOGY

LEGEND		ERIE COUNTY AAL DATA	CNMS VALIDATION STATUS
● Dams	★ Wave Gages	Total Average Annualized Losses per Census Block (Thousands \$)	UNVERIFIED
● LOMCs	● Ports	0 - 25	UNKNOWN
● USGS Gages	★ Repetitive Loss	25 - 100	VALID
● Lake Erie Shoreline		100 - 250	
● Watersheds (HUC 8)		250 - 750	
● Streams		750 - 2000	
● Discovery Area			
● Surrounding Counties			
● County Boundary			
● Municipal Boundaries			
	SPECIAL FLOOD HAZARD AREAS		
	AE		
	0.2 PCT ANNUAL CHANCE FLOOD		



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Making the Leap to Mitigation

Adopting a
"Whole Community Approach"

"We must look beyond the traditional, government-centric approach to emergency management and embrace a philosophy and operational posture that leverages, and serves, the Whole Community."

— W. Craig Fugate, FEMA Administrator

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Whole Community Approach Outcomes if We Do it Right

- Shared understanding of community needs and capabilities
- Greater empowerment and integration of resources from across the community
- Stronger social infrastructure
- Establish relationships that facilitate more effective prevention, protection, mitigation, response, and recovery activities
- Increased individual and collective preparedness
- Greater resiliency at both the community and national levels

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Coastal Flood Study Outputs Planning for Community Resilience

- It's more than just "a line on a map"
- 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 Planning
 - 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

Flood Risk Database (FRD)

Flood Risk Report

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Great Lakes Coastal Flood Study Local Hazard Mitigation Plans



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Great Lakes Coastal Flood Study Recommended Higher Standards



- 1 - 2 feet of freeboard
- Restrictions on hazardous material storage
- Regulated high risk land uses (e.g. manufactured homes/critical infrastructure)
- 50 foot Setbacks/ Buffers
- Conservation/open space area
- Cumulative Substantial Damage/Substantial Improvement

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Great Lakes Coastal Flood Study Recommended Higher Standards



- Lower threshold for Substantial Damage
- Subdivision design triggering flood study (5 lots or 5 acres, whichever is lesser)
 - Prohibitions
 - SFHA development
 - Manufactured homes
 - Fill
 - Community Identified Flood Areas

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Great Lakes Coastal Flood Study Mitigation Activities in Erie County



- Erie County DFIRM
- Erie County Hazard Mitigation Plan
- Presque Isle Mitigation Grant



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Great Lakes Coastal Flood Study Mitigation Strategies in Erie County



- Update and adopt floodplain management ordinance
- Update and adopt stormwater ordinance
- Work to combine the resources in an effort to mitigate future natural and man-made emergencies
- Host Public Forum to discuss personal planning protection for citizens
- Provide overtopping protection to Edinboro Lake Dam

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Great Lakes Coastal Flood Study Mitigation Strategies in Erie County



- Construct retention pond at previously identified vulnerable area
- Increase awareness of and participation in FEMA's Community Rating System (CRS) Program in cooperation with DCED
- Increase capacity of cross pipes at 9 previously identified vulnerable locations
- Community planning for mitigation action and awareness
- Consider more restrictive provisions during zoning ordinance update

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Great Lakes Coastal Flood Study 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

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Great Lakes Coastal Flood Study Mitigation Grant Programs



- Grants and State/County Projects for the implementation of mitigation activities and projects
- Hazard Mitigation Grant Program (HMGP)
- Pre-Disaster Mitigation (PDM)
- Severe Repetitive Loss (SRL)
- Repetitive Flood Claims (RFC)
- Flood Mitigation Assistance (FMA)

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National Flood Insurance Program



- Allows property owners to purchase flood insurance at reduced rates
- State and local governments agree to adopt and enforce floodplain management ordinances
- Community Rating System (CRS)



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Great Lakes Coastal Flood Study Risk Communication



- **Federal/State/Local goals:**
 - To reduce risk to life and property, ensure safer, sustainable communities
 - To effectively communicate risk and increase public awareness, leading citizens to make informed decisions regarding their risk
- **Key factors contributing to successful achievement of these goals are:**
 - Community engagement and exchange of flood risk information
 - Effective collaboration through partnerships
 - Local understanding and implementation of mitigation action and strategies

RiskMAP
Increasing Resilience Together

Great Lakes Coastal Flood Study

greatlakescoast.org

Great Lakes Coastal Flood Study Risk Communication



- **Federal/State/Local goals:**
 - To reduce risk to life and property, ensure safer, sustainable communities
 - To effectively communicate risk and increase public awareness, leading citizens to make informed decisions regarding their risk
- **Key factors contributing to successful achievement of these goals are:**
 - Community engagement and exchange of flood risk information
 - Effective collaboration through partnerships
 - Local understanding and implementation of mitigation action and strategies

RiskMAP
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Great Lakes Coastal Flood Study

greatlakescoast.org

Great Lakes Coastal Flood Study Discussion and Q&A



- Local issues and concerns
- Steps taken to reduce risk
- Ongoing or proposed projects along Lake Erie
- Other



RiskMAP
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Great Lakes Coastal Flood Study

greatlakescoast.org

Great Lakes Coastal Flood Study Next Steps



- Communities can provide additional data
- FEMA will:
 - Assess data and information provided
 - Prepare final Discovery Maps and Discovery Report
- Communities and FEMA will coordinate regarding Project Charter or other agreement regarding community's contribution to project

RiskMAP
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Great Lakes
Coastal Flood Study

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Great Lakes Coastal Flood Study Next Steps



- Coastal Analysis and Mapping
 - Flood Study Review Meeting
 - Preliminary FIRMs
 - Resiliency Meeting
 - Community Coordination Meeting
 - Flood Risk Open House
 - Appeal Period
 - FIRM Adoption
- 2012
↓
2013
↓
2014

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Great Lakes Coastal Flood Study Resources



- FEMA: www.fema.gov
- Floodsmart (official site of NFIP): www.floodsmart.gov
- Risk Assessment, Mapping and Planning Partners: www.RAMPP-team.com
- NFIP Reform: www.fema.gov/business/nfip/nfip_reform.shtm

(Please refer to Resource Handout for more information)

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Coastal Flood Study

greatlakescoast.org

Great Lakes Coastal Flood Study Contacts



FEMA Region III:

Jon Janowicz, Risk Analysis Branch Chief

Jon.Janowicz@fema.dhs.gov

David Bollinger, Mitigation Outreach Coordinator

David.Bollinger@fema.dhs.gov

RAMPP:

Amelia Vincent

amelia.vincent@urs.com

Andrew Brunt

abrunt@dewberry.com

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Great Lakes
Coastal Flood Study

greatlakescoast.org



FEMA

Attachment D-3

Sign-In Sheets

Erie County, Pennsylvania Demo/Discovery Sign-In Sheet

July 18, 2012

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

Organization	Name	Address	St, City, ZIP	Phone	Email	Initials
Erie County Conservation District	Joseph Hudson	1927 Wager Road	Erie, Pennsylvania 16509	814-825-6403	jhudson@erieconservation.com	JH
City of Erie	Armand Chimenti	626 State Street	Erie, Pennsylvania 16501		achimenti@erie.pa.us	AC
Township of Harborcreek	Connie Cruz	5601 Buffalo Road	Harborcreek, Pennsylvania 16421	814-899-5890	ccruz@harborcreektownship.org	CC
Erie County ^{City of Erie}	<u>Mat Puz</u>	<u>140 West 6th Street</u> ^{C26 State St}	Erie, Pennsylvania 16501		mpuz@eriecountygov.org	MCP
Erie County	Mike Baker	141 West 6th Street	Erie, Pennsylvania 16502		mbaker@eriecountygov.org	MB
Erie County Public Safety	Dale Robinson	2880 Flower Road	Erie, Pennsylvania 16509	814-451-7922	drobinson@ecdops.org	DR
PA Sea Grant	David Skellie	301 Peninsula Drive, Suite 3	Erie, Pennsylvania 16505		dus18@psu.edu	DS
City of Erie	Andy Zimmerman	626 State Street	Erie, Pennsylvania 16501		AZimmerman@erie.pa.us	
Lawrence Park	Mark Kokla			814-454-1263		MK

Erie County, Pennsylvania Demo/Discovery Sign-In Sheet

July 18, 2012

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

Organization	Name	Address	St, City, ZIP	Phone	Email	Initials
Cumulus Media	Matthew Jarvi				matt.jarvi@cumulus.com	
Township of Fairview	Ralph Heidler	7471 McCray Road	Fairview, Pennsylvania 16415	814-474-5942	supervisors@fairviewtownship.com	RH

Erie County, Pennsylvania Demo/Discovery Sign-In Sheet

July 18, 2012

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

Organization	Name	Address	St, City, ZIP	Phone	Email	Initials
Fred King	RAMPP	8401 Artists Blvd	Fairfax, VA	703-849-0305	flking@schlumberger.com	JK
RAMPP	Amelia Vincent	12420 Milestar Center Dr. Ste 150	Germantown, MD 20876	301-820-3186	amelia.vincent@urs.com	AV
RAMPP	Jeff Gangai	8401 Artists Blvd	Fairfax, VA	703-849-0251	jgangai@denberry.com	JG
RAMPP	Ann Terranova	—	—	—	ann.terranova@urs.com	AMTT
USACE Buffalo	Laura Ortiz	176 Niagara St Buffalo	Buffalo, NY 14201	716-879-4407	laura.v.ortiz@usace.army.mil	lvo
PRESERVE ISLE STATE PARK	Harvey LESUE	501 PENINSULA BLVD. ERIE, PA 16505	ERIE, PA 16505	814-833-7424	HLESUE@PA.GOV	HL

Attachment D-4

Meeting Summary

Great Lakes Coastal Flood Study
Erie, PA Demonstration Project/Discovery Meeting
July 18, 2012; 4 pm EDT
Discussion Highlights

1. Introductions and Welcome (round robin – refer to sign in sheet)
2. Purpose and Intent of Today's Meeting (review slides)
3. Part 1: Demonstration Project Overview/Results (review slides)
4. Part 2: Discovery (review slides)
5. Discussion/Q&A:

Demonstration Project:

- Jeff Gangai from the Risk Assessment, Mapping, and Planning Partners (RAMPP) Team gave an overview presentation of the Demonstration Project goals and work accomplished to-date. He also presented some of the Basin-wide lake water level modeling results.
- An observation was made by Jon Janowicz (FEMA Region III) that there is confidence in the current effective maps because of what we are seeing in the way of study results (consistency between effective and new data).
- **A question was asked about recording surges in the winter time due to ice.** Gages are recording during that time; historical ice coverage data from the National Oceanic and Atmospheric Administration (NOAA) is taken into consideration when calculating surge.
- **A question was asked about the Flood Insurance Rate Maps (FIRMs) that were issued two-three years ago.** The previously released maps did not update the coastal information. The coastal map panels will now be updated to reflect the new data from the Great Lakes Coastal Flood Study.
- **A question was asked whether we have talked to PA Coastal Zone Management (CZM); there is a lot of information (imagery, LiDAR, etc.) there.** Yes, we have talked with them and have noted the data that is available. A request was made for any beach sediment information that may be available.
- **A question was asked about extent of bathymetry.** The new U.S. Army Corps of Engineers (USACE) Light Detection and Ranging (LiDAR) being collected goes out to about 500 meters from the shoreline.
- **Jon Janowicz clarified the coastal study is for all of the Great Lakes and that demonstration projects are taking place for the other Lakes.** The information today is for Lake Erie only.
- **A question was asked about the preliminary FIRMs and that they lacked the coastal information. Is that what is holding up the Letter of Final Determination (LFD)?** No. This has been held up due to an administrative process and it is being addressed.
- **Jon Janowicz asked about the International Joint Commission (IJC) and whether attendees were familiar with that effort.** Generally, people were not aware of this initiative.

Discovery Project:

- **A question was asked by Jon Janowicz about the value of the State Hazard Mitigation Plan (HMP).** It is just shy of a \$1 million. Dave noted that the Pre-Disaster Mitigation Program will not likely be funded due to budget constraints.
- **A question was asked about what was discussed (e.g., hazard mitigation planning, etc.) is just for coastal. For Erie County, citizens were provided with information about effective and new maps with a concerted outreach effort. Will this study change things?** No. Things are happening along a parallel path. Takeaway is that we (FEMA) are on the verge of publishing the correction notice (statutory process), which is an important hurdle to get over. Need to make sure this is communicated to the appropriate people. ***This is a follow-up action on the part of FEMA.***
- **Are banks and insurance agents getting this same information?** Yes. Some are already using the preliminary information. The President's transportation bill passed last week; buried in the bill were changes to the National Flood Insurance Program (NFIP) (primarily rate changes).
- **Mike Baker, Erie County Planner/Geographic Information System (GIS), said the county has rolled out a GIS program to identify parcels affected by the preliminary FIRM.** His department sent a letter to all property owners letting them know about the changes.
- **Regarding schedule, a comment was made that only coastal panels will be revised** based on this study (coordination with County-wide mapping will take place).
- **Another good takeaway is because there is a blended coastal and county-wide process; FEMA will be able to address both in future interactions with the communities (opportunity to streamline the process).**
- **Laura Ortiz with the USACE provided a brief description of what they are doing to coordinate efforts with FEMA and other entities.** USACE/Silver Jackets has published a directory of programs (handbook) specific to the Commonwealth that she will provide. If people have questions about USACE efforts, please call her and she will work to get answers.
- **A question was asked regarding the USACE Buffalo District and whether the Corps has a better source of elevation data and aerial photos for Presque Isle than the Commonwealth has currently.** The USACE has oblique imagery available for all of Lake Erie and is planning to collect new, higher-resolution LiDAR and bathymetry for the near-shore later this year.
- Erie County is in the process of compiling information for the study.

6. Wrap-up and Adjourn

- Jon Janowicz indicated that today's meeting was a blend of information. The ultimate goal is to help communities achieve risk reduction (this is an ongoing process).
- Regarding Mitigation Action Forms, these also need to be emailed to the municipalities.
- Dave Bollinger with FEMA Region III thanked participants for their time and encouraged their continued participation.
- The Demonstration/Discovery meeting was adjourned at approximately 5:45 p.m. EDT.

Attachment D-5

Meeting Evaluation Forms

Lake Erie/Pennsylvania Demo/Discovery Meeting Evaluation Form

July 18, 2012

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

Statement	Strongly Agree	Somewhat Agree	Neither Agree Nor Disagree	Somewhat Disagree	Strongly Disagree	Not Applicable
-----------	----------------	----------------	----------------------------	-------------------	-------------------	----------------

As a Result of this Meeting:

I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

I have a better understanding of my organization's role in the project and future activities.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

Statement	Strongly Agree	Somewhat Agree	Neither Agree Nor Disagree	Somewhat Disagree	Strongly Disagree	Not Applicable
-----------	----------------	----------------	----------------------------	-------------------	-------------------	----------------

Meeting Logistics:

The location of the meeting was convenient for me.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

The time of the meeting was convenient for me.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

The information presented was easy to understand.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

I preferred this meeting's format to others I've attended.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	--------------------------	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

The handouts provided at this meeting were helpful (if applicable).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

Your contact information (Optional):

Name: RALPH HEIDLER

Organization: FAIRVIEW TOWNSHIP

City: FAIRVIEW County: Erie State: PA

E-mail: supervisors@fairviewtownship.com Phone: 814 474-5942

Lake Erie/Pennsylvania Demo/Discovery Meeting Evaluation Form

July 18, 2012

Please check the box that indicates your level of agreement with the following statements. Please provide comments for Strongly Agree, Strongly Disagree, and Not Applicable responses.

Statement	Strongly Agree	Somewhat Agree	Neither Agree Nor Disagree	Somewhat Disagree	Strongly Disagree	Not Applicable
-----------	----------------	----------------	----------------------------	-------------------	-------------------	----------------

As a Result of this Meeting:

I have a better understanding of the Great Lakes Coastal Flood Study and the Risk MAP Program.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

I have a better understanding of the coastal analysis, modeling, and mapping methods used for this project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

I have a better understanding of my organization's role in the project and future activities.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

I am better prepared to explain the Great Lakes Coastal Flood Study, including how it impacts my organization or community.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Please provide your thoughts and ideas of ways to improve on future offerings of the Great Lakes Coastal Flood Study Discovery Meeting:

Statement	Strongly Agree	Somewhat Agree	Neither Agree Nor Disagree	Somewhat Disagree	Strongly Disagree	Not Applicable
-----------	----------------	----------------	----------------------------	-------------------	-------------------	----------------

Meeting Logistics:

The location of the meeting was convenient for me.

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

The time of the meeting was convenient for me.

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

The information presented was easy to understand.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Comments: _____

I preferred this meeting's format to others I've attended.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	-------------------------------------

Comments: _____

The handouts provided at this meeting were helpful (if applicable).

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	-------------------------------------

Comments: _____

Your contact information (Optional):

Name: _____

Organization: _____

City: _____

County: _____

State: _____

E-mail: _____

Phone: _____

Attachment D-6

Mitigation Action Form

No Mitigation Action forms were submitted.

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://www.fema.gov/about/contact/shmo.shtm>

Your Information

Please enter the primary contact associated with this Mitigation Action.

1. Full Name *Required*

Please provide your full name, e.g.: Michael Smith

2. Email Address *Required*

Please provide your email address, e.g.: example@example.com

3. Your Title and Organization *Required*

Please provide your relevant title and organization as it applies to this form, e.g.: Floodplain Administrator for City of Boulder, Colorado.



Mitigation Action Information

Below please enter information as it directly applies to the mitigation action you are discussing.

4. Jurisdiction Name(s) *Required*

Please provide the full name of the jurisdiction where the Mitigation Action applies, e.g.: City of Boulder, CO

5. Mitigation Activity Name *Required*

The Mitigation Activity Name should be concise yet descriptive. For example, flood acquisition projects along south side of Main St.

6. Mitigation Action Status *Required*

Please check the appropriate box. The Mitigation Action Status defines the current stage of the action. For example, a 'Scoped' status suggests that the action has been scoped or funded with intentions to move to 'In Progress' and advance toward 'Completion'.

Identified Scoped In Progress Completed

7. Mitigation Action Source *Required*

Please check the appropriate box. The Mitigation Action Source defines the source/process that identified or refined the action or changing its status.

Risk MAP Process 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

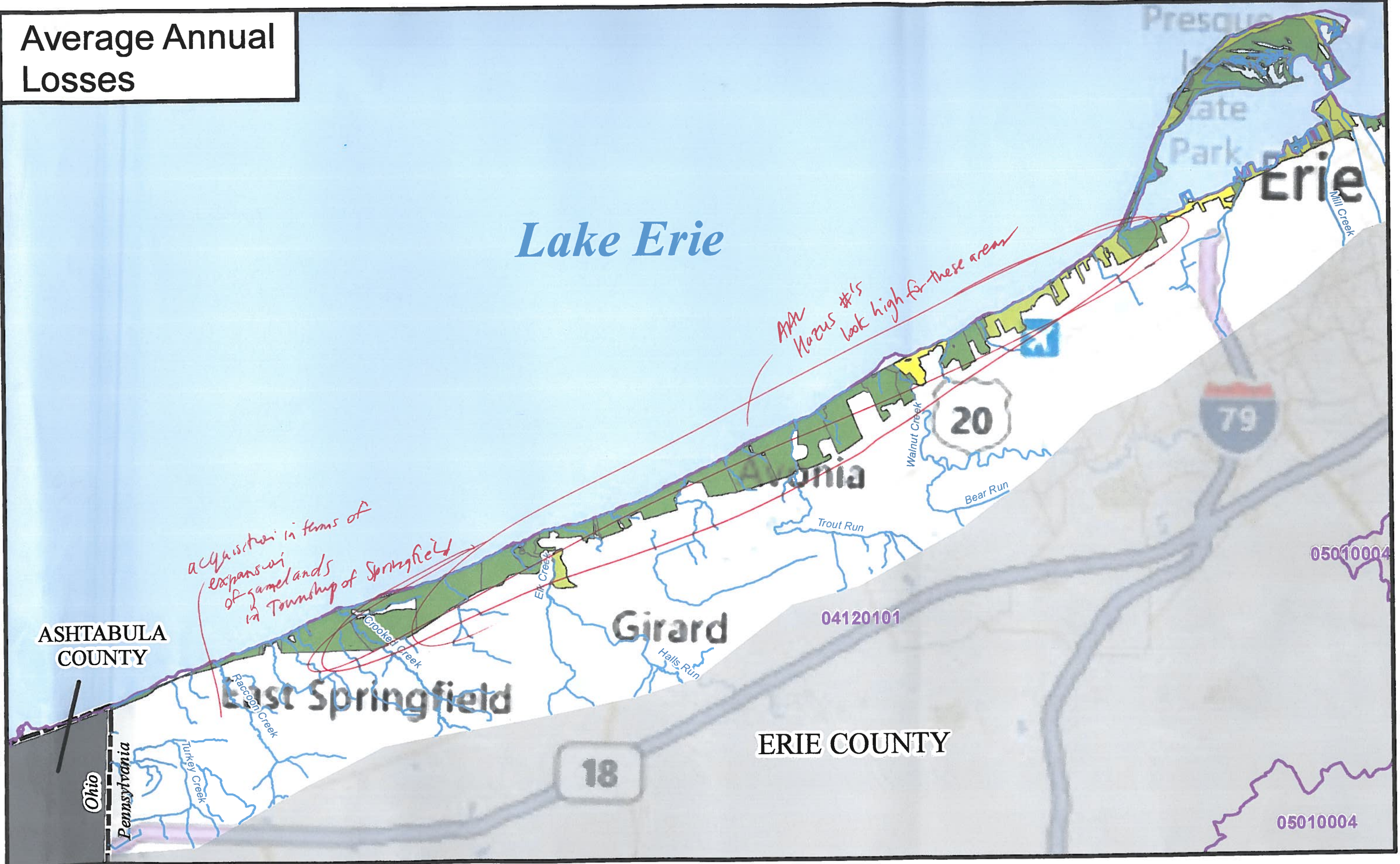
- **Department of Housing and Urban Development**
- **Bureau of Land Management**
- **Environmental Protection Agency**
- **Department of Transportation**
- **Bureau of Indian Affairs**
- **National Oceanic and Atmospheric Administration**
- **U.S. Geological Survey**
- **Natural Resources Conservation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

Property Owner

Other

Attachment D-7
Discovery Map Comments from
Meeting

Average Annual Losses



Disaster Declarations				
State	Date	County	Incident Type	Title
PA	06/23/1972	Erie	Severe Storm, Flooding	Tropical Storm Agnes
PA	06/03/1985	Erie	Severe Storms, High Winds, Tornadoes	Storms and Flooding

Average Annual Losses



Disaster Declarations				
State	Date	County	Incident Type	Title
PA	06/23/1972	Erie	Severe Storm, Flooding	Tropical Storm Agnes
PA	06/03/1985	Erie	Severe Storms, High Winds, Tornadoes	Storms and Flooding
PA	01/21/1996	Erie	Flooding	Storms and Flooding