# Village of Centre Island Annex

This document presents the Village of Centre Island's annex to the *Nassau County Multi-Jurisdictional Hazard Mitigation Plan*.

## Hazard Mitigation Plan Points of Contact

The individuals below have been identified as this jurisdiction's points of contact for the hazard mitigation plan. These individuals are members of the Planning Committee that met regularly for the update of this plan and will continue to meet in the years ahead to implement it.

| Primary Point of Contact | Alternate Point of Contact |
|---|---|
| Lawrence Schmidlapp, Mayor<br>Village of Centre Island<br>303 Centre Island Road<br>Oyster Bay, NY 11771<br>larry.schmidlapp@gmail.com<br>516-375-3036 | Michael Chalos, Deputy Mayor<br>Village of Centre Island<br>303 Centre Island Road<br>Oyster Bay, NY 11771<br>mgchalos@gmail.com<br>917-744-2649 |

## Profile

The Village of Centre Island covers approximately 1.12 square miles[1] and has a total population of 534 according to the American Community Survey 5-year 2018 Estimates. Some of the demographics of the Village of Centre Island are summarized in Table 1. This information supported the development of mitigation actions that account for the needs of the most vulnerable individuals in the community.

*Table 1: Village of Centre Island Demographic Information*

| Demographic | | Demographic | |
|---|---|---|---|
| Below 5 Years Old | 1.0% | Black or African American alone | 0.4% |
| Above 65 Years Old | 25.5% | American Indian and Alaska Native alone | 0.0% |
| Individuals with Disabilities | Information not provided | Asian alone | 6.3% |
| Persons in Poverty | 5.7% | Native Hawaiian and other Pacific Islander alone | 0.0% |
| Renters | 6.0% | Two or More Races | 0.8% |
| Without a High School Diploma | 2.1% | White alone, not Hispanic or Latino, percent | 88.5% |
| Without Access to Broadband Internet | 0.0% | Hispanic or Latino | 0.0% |

[1] This is inclusive of land area only.

The Village of Centre Island consists of waterfront property that is likely to be developed in the future. The community has seen an escalation of re-development of older homes. Despite the updates to residential property, the community is reluctant to change and expand growth across the 605 acres. The jurisdiction keeps the zoning maps and planning team up-to-date. By understanding these development trends and how they intersect with hazard-prone areas, this allows for current and future vulnerabilities to be planned for and avoided.

Refer to the **County Profile** section of this plan for additional information related to current and future conditions of the County's vulnerable population and the natural environment. This information provides important context for understanding hazard mitigation planning.

## Hazard Vulnerability

This section summarizes how the natural hazards profiled in Section 4 of this plan impact the Village of Centre Island. The jurisdiction identified coastal hazards, flooding, hurricane, severe winter weather and wind the natural hazards that most impact the community. Table 2 shows the sectors of the community that are most likely to be impacted by each hazard. The categories that were considered included the community, economy, health and social services, housing, infrastructure, natural and cultural resources, or no impact. No impact indicates that the jurisdiction did not identify a noticeable impact from the hazard over the past five years, even if the hazard occurs. This information was used to develop a relevant and effective mitigation strategy for the jurisdiction. Detailed hazard event histories, critical facility exposure, and additional vulnerability information can be found in each hazard profile in Section 4 of this plan.

The hazards that most impact the Village of Centre Island include: **Coastal Hazards, Flooding, Hurricane, Severe Winter Weather, and Wind.**

*Table 2: Village of Centre Island Hazard Impacts*

| Hazard | Impact Categories |
|---|---|
| Coastal Hazards | Community, Health and Social Services, Infrastructure |
| Drought | No Impact |
| Extreme Temperatures | Health and Social Services |
| Flooding | Community, Housing, Infrastructure |
| Ground Failure | No Impact |
| Hurricane and Tropical Storms | Community, Economy, Health and Social Services, Housing, Infrastructure |
| Hail | Community, Housing |
| Lightning | Community, Housing, Infrastructure |
| Severe Winter Weather | Housing, Infrastructure |
| Tornados | Community, Economy, Housing, Infrastructure |
| Wind | Community, Economy, Housing, Infrastructure |

# Capability Assessment

This section summarizes the capabilities that the Village of Centre Island has in place that can support hazard mitigation. These capabilities include plans, ordinances, staff, financial resources, and program participation. This Capability Assessment was used to help drive the identification and development of the projects presented in the Mitigation Strategy to make sure that they are appropriate in scope and achievable to implement.

## Legal and Regulatory Capability Assessment

Table 3 lists the assessment of existing legal and regulatory tools for the Village of Centre Island. The Village of Centre Island maintains several key administrative and technical capabilities to support mitigation, including building codes, stormwater management plans, subdivisional ordinances, and zoning ordinances. These capabilities are critical to consider as tools in developing and implementing mitigation strategies. To further enhance their mitigation capabilities, the Village can consider the capabilities in the table below that the Village currently does not have. These additional capabilities would either support creating a legal framework or strategy for implementing a diversity of mitigation actions.

*Table 3: Village of Centre Island Existing Legal and Regulatory Capabilities*

| Regulatory Tool | Yes / No | Citation (*if applicable*) |
|---|---|---|
| Access and Functional Needs Plan | No | |
| Building Code | Yes | General Code |
| Capital Improvement Plan | No | |
| Climate Action Plan | No | |
| Community Development Plan | No | |
| Comprehensive Plan / Master Plan | No | |
| Economic Development Plan(s) | No | |
| Emergency Response Plan(s) | No | |
| Floodplain Management Plan(s) | No | |
| Growth Management Plan(s) | No | |
| NFIP Flood Damage Prevention Ordinance(s) | No | |
| Open Space Plan(s) | No | |
| Post Disaster Recovery Ordinance(s) | No | |
| Post Disaster Recovery Plan(s) | No | |
| Real Estate Disclosure Requirements | No | |
| Resilience Plan(s) | No | |
| Site Plan Review Requirement(s) | No | |
| Small Area Development Plan(s) | No | |

| Regulatory Tool | Yes / No | Citation (*if applicable*) |
|---|---|---|
| Special Purpose Ordinance(s) | No | |
| Stormwater Management Plan(s) | Yes | MS4 |
| Subdivision Ordinance(s) | Yes | Local Planning Board |
| Transportation Plan(s) | No | |
| Zoning Ordinance(s) | Yes | General Code Zoning ordinances |

## Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Centre Island. The Village of Centre Island has a high level of primary administrative and technical capabilities to support mitigation. This includes management, engineering, grant writing, GIS analyst, and planning. Increasing training capacity and expertise of these individuals will support mitigation practice in the Village.

*Table 4: Village of Centre Island Existing Staff / Personnel Resource*

| Staff / Personnel Resource | Yes / No | Details |
|---|---|---|
| Emergency Manager(s) | Yes | Mayor Lawrence Schmidlapp |
| Engineer(s) trained in construction practices related to buildings/infrastructure | Yes | Village Engineer James Antonelli |
| Engineer(s) with an understanding of natural and/or human caused hazards | No | |
| Engineer(s) with knowledge of land development and land management practices | Yes | Building Inspector Joe Richardson |
| Grant Writers | Yes | currently looking |
| Personnel skilled or trained in Geographic Information Systems | Yes | Village Clerk- Carol Schmidlapp |
| Personnel trained in construction practices related to buildings/infrastructure | Yes | Building Inspector- Joe Richardson |
| Planner(s) with an understanding of natural hazards | No | |
| Planner(s) with knowledge of land development and land management practices | Yes | Jim Antonelli |
| Scientist(s) familiar with natural hazards | No | |
| Surveyors | No | |

## Fiscal Capability Assessment

Table 5 lists the assessment of existing fiscal tools for the Village of Centre Island. Funding is often the biggest barrier when implementing mitigation programs. The Village is primarily able to fund mitigation programs by incurring debt via general obligation bonds, levying taxes for specific purposes, and capital improvements project funding. Village of Centre Island should consider exploring additional fiscal capabilities in order to gain access to additional funding for mitigation.

*Table 5: Village of Centre Island Existing Fiscal Capabilities*

| Resources | Yes / No | Additional Details |
|---|---|---|
| Ability to incur debt through general obligation bonds | Yes | |
| Ability to incur debt through private activity bonds | No | |
| Ability to incur dept through special tax bonds | No | |
| Authority to levy taxes for specific purposes | Yes | |
| Authority to utilize user fees for utility services | No | |
| Authority to withhold public expenditures in hazard prone areas | No | |
| Capital improvements project funding | Yes | |
| Community Development Block Grants (CDBG) | No | |
| Impact fees for home buyers and/or developers | No | |
| State mitigation grant programs | No | |

## Community Classification Assessment

Table 6 lists the assessment of existing community classifications for the Village of Centre Island. Exploring gaining one or more community classifications will guide the Village's mitigation programs and support capacity building.

*Table 6: Village of Centre Island Community Classifications*

| Classification | Yes/No (or Status) |
|---|---|
| Building Code Effectiveness Grading Schedule (BCEGS) | No |
| Public Protection Classification Program | No |
| Community Rating System (CRS) | No |
| Other Classifications | No |

## National Flood Insurance Program Summary

There are three low elevation areas in the Village that are flood-prone. All other areas are 12 feet above mean high tide. This section provides a summary of the floodplain management capabilities for Village of Centre Island and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP).

The Village's Building Inspector is responsible for floodplain management. One of the barriers to running a successful NFIP program in the Village is convincing landowners to participate in the NFIP program. The flood maps for this jurisdiction accurately portray the current flood risk. There are currently no RiskMAP projects ongoing in this jurisdiction.

After flood events, substantial damage determinations are made through in-person site inspections. The Village reported that one property was substantially damaged as a result of recent flood events.The Village of Centre Island is in good standing with the NFIP. Based on documentation received from NYSDEC, the Village had its last Community Assistance Contact on 12/06/2012 and its last Community Assistance Visit on 04/14/2016. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

One spot causes the main road to flood and thereby halting all traffic in and out. The Village has secured a State grant to raise this area several feet up to mitigate the potential for it to be flooded in the future. The Flood Damage Prevention Ordinance was last amended 07/08/2009 and can be referenced in § 62, Adopted 7-8-2009 by LL. No. 1-2009..

# Mitigation Strategy

The following section provides an overview of the mitigation strategy for Village of Centre Island. It provides an overview of the jurisdiction's previous mitigation actions, proposed actions, and the NYS mitigation worksheets.

## Previous Mitigation Actions

| | | |
|---|---|---|
| **Action** | Centre Island Road Flooding Mitigation - Construction of a 5ft high extension to an existing 1ft wall, and two one-way 12" diameter sluice pipes. | Generator installed at the Police Station in order to reduce impacts from flooding events. |
| **Risk Category** | Flooding | Flooding |
| **Project Status** | In progress | Completed |
| **Project Status Description** | Engineering analysis is done but additional project work is temporarily halted. Construction has not started due to logistics and the scope of the plan. After extensive engineering drawings, the owner of adjacent property refuses to lose use of his driveway for two months in order for construction to move forward. | |
| **Carried Forward to 2020 Plan** | Yes | NO |
| **Required Changes** | A better way to accomplish the end result is being studied | |

## Proposed Mitigation Actions

| Project Number | VCI_1 | VCI_2 | VCI_3 |
|---|---|---|---|
| Project Name | Road Elevation | Seawall Valve | Tree Maintenance Program |
| Goal being met | 1, 3 | 1, 3 | 3, 5 |
| Hazards to be mitigated | Flooding | Coastal Flooding | Straight-line wind, hurricane |
| Priority Ranking | High | High | High |
| Description of the Problem | Saltwater flooding prevents emergency vehicles from accessing the Village due to the effects of salt water on expensive fire and ambulance trucks. | Existing seawall does not provide sufficient protection from coastal flooding events. | Trees are over 100 years old and present a road hazard during high wind and rain situations several times a year. |
| Description of the Solution | Prevent the storm surge from breaching a flood wall and flooding the main road at its origin by elevating the road two feet for the first 400 feet. | Install a one-way valve for the seawall to support water management and limit erosion. | Develop a tree maintenance program that includes a process for hiring an arborist to evaluate trees and suggest mitigation measures to limit future damage caused by high wind that brings down limbs and trees. |
| Critical Facility | Yes | Yes | No |
| EHP Issues | Yes | No | No |
| Estimated Timeline | Two years | One year | One year |
| Lead Agency | Centre Island Department of Transportation | Village of Centre Island | Centre Island Department of Transportation |
| Estimated Costs | $120,000 | To be determined | $25,000 |
| Estimated Benefits | home, life safety | Protection of Facilities (Police Station); Asset Protection | Property and auto damage |
| Potential Funding Sources | NYS Grant | Municipal budget, NYS Grant | Municipal budget, NYS Grant |

## Mitigation Action Worksheets

The following pages contain mitigation action worksheets that provide additional detail some of the jurisdiction's proposed mitigation actions.

## Nassau County Multi-Jurisdictional Hazard Mitigation Plan

**Name of Jurisdiction:** Village of Centre Island, Oyster Bay, NY

| NYS DHSES Action Worksheet | | | |
|---|---|---|---|
| Project Name: | Road Elevation | | |
| Project Number: | VCI_1 | | |
| **Risk / Vulnerability** | | | |
| Hazard of Concern: | Storm surge | | |
| Description of the Problem: | Saltwater flooding prevents emergency vehicles from accessing the Village due to the effects of salt water on expensive fire and ambulance trucks. | | |
| **Action or Project Intended for Implementation** | | | |
| Description of the Solution: | Prevent the storm surge from breaching a flood wall and flooding the main road at its origin by elevating the road two feet for the first 400 feet. | | |
| Is this project related to a Critical Facility? | Yes | Y | No |
| (If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.) | | | |
| Level of Protection: | Storm surge | Estimated Benefits (losses avoided): | Emergency vehicle access at all times |
| Useful Life: | 75 years | | |
| Estimated Cost: | $120,000 | | |
| **Plan for Implementation** | | | |
| Prioritization: | High | Desired Timeframe for Implementation: | One year |
| Estimated Time Required for Project Implementation: | Two Years | Potential Funding Sources: | Possible grant from NY State for $100,000 |
| Responsible Organization: | Centre Island Department of Transportation | Local Planning Mechanisms to be Used in Implementation, if any: | Not available |

| Three Alternatives Considered (including No Action) | | | |
|---|---|---|---|
| Alternatives: | *Action* | *Estimated Cost* | *Evaluation* |
| | No Action | $0 | |
| | Raise the road 2 feet attaching all current drains | $120,000 | A resident refuses to let the construction company tie up their driveway access for a month. |
| | Suggested to raise the concrete wall four feet to keep water from the roadbed- use tide gates for draining. | $110,000 | Currently in the hands of Village Engineer to explore feasibility |

| Progress Report (for plan maintenance) | |
|---|---|
| Date of Status Report: | 7/15/2020 |
| Report of Progress: | Awaiting feasibility study- already spent $15,000 on road raising surveys so back to square one. |
| Update Evaluation of the Problem and/or Solution: | Raising the road allows for a longer lasting solution but raising the height of the wall seems to be the only option. |

# Instructions

(Name of Jurisdiction)

| NYS DHSES Action Worksheet | | | |
|---|---|---|---|
| Project Name: | Each action must have a unique project number referenced here and in the Action Tables. | | |
| Project Number: | Each action must have a unique project name referenced here and in the Action Tables. | | |
| **Risk / Vulnerability** | | | |
| Hazard of Concern: | Identify the hazard being addressed with this action. | | |
| Description of the Problem: | Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site. | | |
| **Action or Project Intended for Implementation** | | | |
| Description of the Solution: | Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies). | | |
| Is this project related to a Critical Facility? | Yes ☐ | No | |
| (If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.) | | | |
| Level of Protection: | Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood. | Estimated Benefits (losses avoided): | Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided. |
| Useful Life: | Identify the number of years the project will provide protection against the hazard. | | |
| Estimated Cost: | Identify all estimated costs associated with implementation. | | |
| **Plan for Implementation** | | | |
| Prioritization: | High | Desired Timeframe for Implementation: | Identify the desired start time for this project. Ex. Within 6 months. |
| Estimated Time Required for Project Implementation: | Provided the estimated time required to complete the project from start to end. | Potential Funding Sources: | Multiple sources of potential funding should be listed when appropriate. |
| Responsible Organization: | Identify the name of a department or agency responsible for implementation, not the jurisdiction. | Local Planning Mechanisms to be Used in Implementation, if any: | Consider the use of local planning mechanisms that will be used to implement this project. |
| **Three Alternatives Considered (including No Action)** | | | |
| Alternatives: | *Action* | *Estimated Cost* | *Evaluation* |
| | No Action | $0 | |
| | Alternative 1 Brief Description | | Include a description of pros/cons of Alternative 1. |
| | Alternative 2 Brief Description | | Include a description of pros/cons of Alternative 2. |
| **Progress Report (for plan maintenance)** | | | |
| Date of Status Report: | This section should be completed during plan maintenance/evaluation. | | |
| Report of Progress: | Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why. | | |
| Update Evaluation of the Problem and/or Solution: | Provide an updated description of the problem and solution, and what has happened since initial consideration/development. | | |

## Nassau County Multi-Jurisdictional Hazard Mitigation Plan

**Name of Jurisdiction:** Village of Centre Island, Oyster Bay, NY

| NYS DHSES Action Worksheet | | | |
|---|---|---|---|
| Project Name: | Tree Maintenance Program | | |
| Project Number: | VCI_3 | | |
| **Risk / Vulnerability** | | | |
| Hazard of Concern: | Straight-line winds, hurricanes | | |
| Description of the Problem: | Trees are over 100 years old and present a road hazard during high wind and rain situations several times a year. Many large oaks and elm trees are diseased and that causes branches to fall on the road during storms. | | |
| **Action or Project Intended for Implementation** | | | |
| Description of the Solution: | Develop a tree maintenance program that employs an arborist to evaluate tree conditions and advise which need to be cut to avoid dangerous travel on the roads. | | |
| Is this project related to a Critical Facility? | Yes | | No X |
| (If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.) | | | |
| Level of Protection: | Protects against storm events that occur frequently (multiple times per year.) | Estimated Benefits (losses avoided): | Property and auto damage |
| Useful Life: | 10 years | | |
| Estimated Cost: | $25,000 | | |
| **Plan for Implementation** | | | |
| Prioritization: | High | Desired Timeframe for Implementation: | ASAP |
| Estimated Time Required for Project Implementation: | One Year | Potential Funding Sources: | Not sure, but ongoing maintenance can be budgeted yearly. |
| Responsible Organization: | Village Department of Transportation | Local Planning Mechanisms to be Used in Implementation, if any: | None |
| **Three Alternatives Considered (including No Action)** | | | |
| Alternatives: | *Action* | *Estimated Cost* | *Evaluation* |
| | No Action | $0 | Deal with trees after they fall |
| | Remove sick or dangerous specimens | $25,000 | If funding impossible, do work over a three-year period. |
| | Wait until they fall hopefully not causing any damage to vehicles | $5,000 | Being considered now as a fall back. |
| **Progress Report (for plan maintenance)** | | | |
| Date of Status Report: | 7/15/2020 | | |
| Report of Progress: | Only have initial review of tree health. | | |
| Update Evaluation of the Problem and/or Solution: | A continuing issue due to the wooded nature of this Island. There just isn't enough room in the budgeting process to resolve the issue so let nature take its course. | | |

# Instructions

(Name of Jurisdiction)

| NYS DHSES Action Worksheet | | | |
|---|---|---|---|
| Project Name: | Each action must have a unique project number referenced here and in the Action Tables. | | |
| Project Number: | Each action must have a unique project name referenced here and in the Action Tables. | | |
| **Risk / Vulnerability** | | | |
| Hazard of Concern: | Identify the hazard being addressed with this action. | | |
| Description of the Problem: | Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site. | | |
| **Action or Project Intended for Implementation** | | | |
| Description of the Solution: | Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies). | | |
| Is this project related to a Critical Facility? | Yes ☐ | No | |
| (If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.) | | | |
| Level of Protection: | Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood. | Estimated Benefits (losses avoided): | Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided. |
| Useful Life: | Identify the number of years the project will provide protection against the hazard. | | |
| Estimated Cost: | Identify all estimated costs associated with implementation. | | |
| **Plan for Implementation** | | | |
| Prioritization: | High | | |
| Estimated Time Required for Project Implementation: | Provided the estimated time required to complete the project from start to end. | Potential Funding Sources: | Multiple sources of potential funding should be listed when appropriate. |
| Responsible Organization: | Identify the name of a department or agency responsible for implementation, not the jurisdiction. | Local Planning Mechanisms to be Used in Implementation, if any: | Consider the use of local planning mechanisms that will be used to implement this project. |
| **Three Alternatives Considered (including No Action)** | | | |
| Alternatives: | *Action* | *Estimated Cost* | *Evaluation* |
| | No Action | $0 | |
| | Alternative 1 Brief Description | | Include a description of pros/cons of Alternative 1. |
| | Alternative 2 Brief Description | | Include a description of pros/cons of Alternative 2. |
| **Progress Report (for plan maintenance)** | | | |
| Date of Status Report: | This section should be completed during plan maintenance/evaluation. | | |
| Report of Progress: | Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why. | | |
| Update Evaluation of the Problem and/or Solution: | Provide an updated description of the problem and solution, and what has happened since initial consideration/development. | | |