

Hillsborough County Multi-jurisdictional Local Mitigation Strategy

2020 Plan Update *(Appendices)*

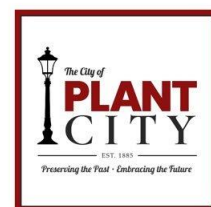
April 25, 2020



**Hillsborough
County** Florida



City of
Tampa
Florida



IN COORDINATION WITH



COMMUNITY STAKEHOLDERS



MACDILL AIR FORCE BASE

MANY MORE

Accommodation Statement

In accordance with the requirements of title II of the Americans with Disabilities Act of 1990 ("ADA"), Hillsborough County will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. Persons with disabilities who need an accommodation for this document should email the [Hillsborough County ADA Officer](#) or call (813) 276-8401; TTY: 7-1-1.

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APPENDIX A – PLANNING PROCESS DOCUMENTATION

This appendix includes the following:

1. LMSWG Roster
2. Meeting Agendas
3. Meeting Notes
4. Meeting Sign-In Sheets
5. Meeting Notices

All LMS Working Group meetings open to the public and are announced via the Hillsborough County calendar at the following location:

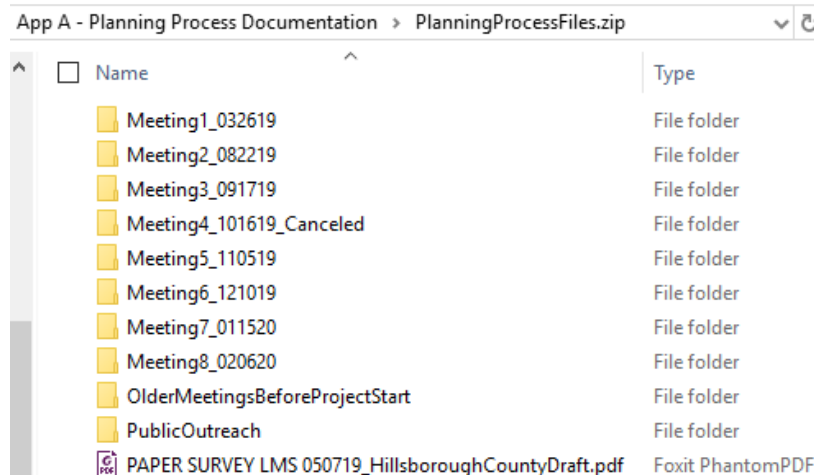
<https://www.hillsboroughcounty.org/en/residents/public-safety/hazard-mitigation/action-folder/local-mitigation-strategy-working-group>

The information from the meetings is available by contacting the Hillsborough County Hazard Mitigation staff at 813.307.4541 or their office:

Hillsborough County Office of Emergency Management
9450 E. Columbus Dr.
Tampa, FL 33619

In addition to the materials included in Appendix A, there are individual files 78 individual files resulting in 159 MB worth of data and thus a zip file of the planning process is being provided directly to Florida Division of Emergency Management for their review process. The files are available via the County’s Office of Emergency Management as the community decides the best way to make the digital file available online.

The contents of this Appendix are structured by each individual meeting and/or the event or public information activity as shown below:



Information provided in the zip file includes the:

- LMS Meeting Presentations
- Meetings Sign-In Sheets
- Meeting Notices
- Public Outreach Documentation
- Public Survey Results
- Draft Plan Review/Request for Feedback Notices



Agenda Item Cover Sheet

Agenda Item N^o: A-11

Meeting Date 1/23/2020

Consent Section

Regular Section

Public Hearing

Subject: Approve, sign, and transmit correspondence to the Florida Division of Emergency Management indicating that Hillsborough County has complied with the annual Local Mitigation Strategy reporting requirements of Rule 27P-22.004, Florida Administrative Code.			
Department Name: Engineering and Operations			
Contact Person: Joshua Bellotti		Contact Phone: 276-2530	
Sign-Off Approvals:			
John Lyons	<u>1/9/2020</u>	Joshua Bellotti	<u>1/8/2020</u>
Assistant County Administrator	Date	Department Director	Date
Kevin Brickey	<u>1/9/2020</u>	Vivian Arenas-Battles	<u>1/8/2020</u>
Management and Budget – Approved as to Financial Impact Accuracy	Date	County Attorney – Approved as to Legal Sufficiency	Date
Lucia Garsys	<u>1/10/2020</u>		
Deputy County Administrator	Date		

Staff's Recommended Board Motion:
 Approve, sign, and transmit correspondence to the Florida Division of Emergency Management indicating that Hillsborough County has complied with the annual Local Mitigation Strategy reporting requirements of Rule 27P-22.004, Florida Administrative Code (FAC). There is no financial impact associated with this agenda item.

Financial Impact Statement:
 There is no financial impact associated with this agenda item.

Background:
 Hillsborough County's Local Mitigation Strategy (LMS) is a plan which presents a unified strategy to build a disaster-resilient community. Rule 27P-22.004, FAC requires Hillsborough County to maintain a current LMS and a formal LMS Working Group. In this regard, Rule 27P-22.004, FAC requires the County to conduct and/or apprise the Florida Division of Emergency Management of the following activities on an annual basis: (a) a list of the officers and members of the LMS Working Group; (b) documentation that a written invitation has been issued to specified parties and entities within the preceding year to participate in the LMS Working Group; and (c) annual LMS updates which address, at a minimum, changes to the hazard assessment, project priority list, critical facilities list, repetitive-loss list, and revisions to any maps. The proposed correspondence and attachments fulfill the annual reporting requirements imposed upon Hillsborough County by Rule 27P-22.004, FAC.

List Attachments: 1. Transmittal Letter for Chairman's Signature; 2. Annual Compliance Form 27P-22 with enclosures pursuant to F.A.C.

ATTACHMENT 1 LETTER FROM THE CHAIRMAN

Lesley "Les" Miller, Jr., District 3
Chairman
Kimberly Overman, District 7
Vice Chair
Stacy R. White, District 4
Chaplain
Sandra L. Murman, District 1
Ken Hagan, District 2
Mariella Smith, District 5
Pat Kemp, District 6



Michael S. Merrill
County Administrator
Christine M. Beck
County Attorney
Peggy Caskey
County Internal Auditor

January 23, 2020

Mr. Miles Anderson, Mitigation Bureau Chief
Florida Division of Emergency of Management
Mitigation Planning Section
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

RE: HILLSBOROUGH COUNTY LOCAL MITIGATION STRATEGY ANNUAL UPDATE
AS REQUIRED BY 27P-22.004 (Formerly 9G-22.004), FLORIDA ADMINISTRATIVE CODE

Dear Mr. Anderson:

Pursuant to Rule 27P-22.004, Florida Administrative Code, the Board of County Commissioners approved the transmittal of the Local Mitigation Strategy (LMS) membership list to the Florida Division of Emergency Management on January 23, 2020. The Chair and Vice-Chair positions on the LMS Working Group (WG) are identified on the list and were voted into the position by popular vote of the LMS WG members.

The LMS WG has been comprised of approximately the same entities as during the past five years, which includes public- and private-service providers. Additionally, the countywide Emergency Operations Stakeholder Group (EOSG) of the Office of Emergency Management serves as the Steering and Oversight Committee to the LMS WG to assist with any decision processes, if required, and is comprised of representation from the County, cities of Plant City, Tampa, and Temple Terrace, state agencies, private-service providers, and community non-profit organizations. Hillsborough County does include communications with the Seminole Tribe of Florida requesting participation.

The LMS process includes conducting a minimum of two meetings a year, which provides a forum in which areas of vulnerability are reviewed. For the calendar year 2019, the LMS WG met six times and held four open houses; whereby meeting notes were recorded, and/or notes logged. The EOSG met four times during this year and approved updates to the project list or recommendations forwarded by the LMS WG. The election of the Chair and the Vice-Chair during 2019 was conducted. During this past period, the enclosed list of members was reviewed and individuals of the LMS WG responded in maintaining their respective standing to remain in the group. An announcement for participation and an appreciation letter for each LMS WG member was sent, which sustained the current Group's makeup. All members were notified of meetings via email and all meetings were noticed on the Hillsborough County calendar.

In accordance with state requirements, information is required to be submitted and contained herein, on an annual basis if modifications have been performed or if new data exist. In summary, compliance with the Florida Administrative Code is summarized in the enclosures contained within this transmittal and forwarded to the Florida Division of Emergency Management (FDEM) to accompany Hillsborough County's submittal. The FDEM (and FEMA) approved the County's last five-year update that was also adopted by the Board of County Commissioners.

Hillsborough County greatly appreciates working with the State and participating in disaster-mitigation activities. This process not only provides a forum for citizens to be involved in reviewing potential risks to our community, but it also works to build a community that is more resilient to disasters. If further information is needed regarding this program, please contact Mr. Eugene Henry, Hazard Mitigation Manager (and Local Mitigation Strategy Coordinator) of the County's Hazard Mitigation Program, Engineering and Operations Department.

Sincerely,

Lesley "Les" Miller, Jr., Chairman
Board of County Commissioners

Enclosures: Annual Compliance Form 27P-22 with Enclosures pursuant to F.A.C.

cc: Board of County Commissioners
Michael S. Merrill, County Administrator
Lucia E. Garsys, AICP, Deputy County Administrator
Christine M. Beck, County Attorney
John W. Lyons, PE, PSM, Assistant County Administrator - Public Works
Joshua Bellotti, PE, Director, Engineering and Operations
Mike Ryan, OEM Section Chief, Office of Emergency Management
Elizabeth Dunn, Chair, University of South Florida, LMS WG
Steven Castonguay, Vice Chair, HC Health Department, LMS WG

ATTACHMENT 2

FLORIDA ADMINISTRATIVE CODE 27P-22.004

ANNUAL COMPLIANCE FORM WITH ENCLOSURES

Florida Administrative Code 27P-22.004
Annual Compliance Form

County	Hillsborough
Chair	Reference: FAC 27P-22. 004 (4)(a)
	Name: Elizabeth Dunn, MPH, CPH
	Jurisdiction & Title: : Instructor, College of Public Health, University of South Florida;
	Address: University of South Florida, 13201 Bruce B. Downs Blvd, MDC 56, Tampa, Florida 33612
	Phone (o):
	Phone (c): 361-510-7935
	Email:
Vice Chair (if applicable)	
	Name: Steven Castonguay
	Jurisdiction & Title: FDOH – Hillsborough, Public Health Preparedness Planner
	Address: 1105 E. Kennedy Blvd, Tampa, FL 33602
	Phone (o): 813-559-4006
	Phone (c): 813-299-0714
	Email: steven.castonguay@flhealth.gov
EM Coordinator (if applicable)	
	Name: Eugene Henry
	Jurisdiction & Title: Hillsborough County, Hazard Mitigation Manager/LMS Coordinator
	Address: Post Office Box 1110, 22nd Floor, Tampa, Florida 33601
	Phone (o): 813-307-4541
	Phone (c): 813-785-4145
	Email: henrye@hcf.gov.net

Was your LMS submitted to the State for review within the last 6 months? Yes No

If your LMS was submitted in the past 6 months, have there been any changes since the plan was submitted?
 Yes No N/A
 If Yes or N/A, please complete the following document.
 If No, your 27P-22.004 annual update is complete.

Florida Administrative Code 27P-22.004
Annual Compliance Form

1. LMS Working Group

Submit the LMS-WG List including contact information.	<input checked="" type="checkbox"/> Attached
Reference: FAC 27P-22. 004 (4)(a)	
Comments: Enclosure 1	

2. LMS Working Group Participation Invites

Provide documentation to show that within the preceding year the county has issued a written invitation to each municipality to participate in the LMS-WG.	<input checked="" type="checkbox"/> Attached
Reference: FAC 27P-22. 004 (4)(3)	
Comments: Enclosure 2	

3. Hazard Analysis Change

Are there any new or removed hazards?	<input checked="" type="checkbox"/> Yes
Reference: FAC 27P-22. 004 (4)(e)(1)	<input type="checkbox"/> No
Comments: Enclosure 3 Added Hazards analyses	If Yes, attach the LMS sections that have been updated.

4. Project Priority List

Include a list of projects in order of priority with associated funding sources and estimated costs. TBD for estimated costs is not sufficient.	<input checked="" type="checkbox"/> Attached
Reference: FAC 27P-22. 004(e)(2) & FAC 27P-22. 005(7)	
Comments: Enclosure 4	

Florida Administrative Code 27P-22.004
Annual Compliance Form

5. Critical Facilities List

Have there been any changes to the critical facilities list within the past year?	<input checked="" type="checkbox"/> Yes
Reference: FAC 27P-22. 004 (4)(e)(3)	<input type="checkbox"/> No
Comments: Enclosure 3 Critical Facilities	
	If Yes, attach the updated list.

6. Repetitive Loss Properties List

Have there been any additions or removals to the repetitive loss properties in any of your jurisdictions within the past year?	<input checked="" type="checkbox"/> Yes
Reference: FAC 27P-22. 004 (4)(e)(4)	<input type="checkbox"/> No
Comments: Enclosure 3 Repetive Loss	
	If yes, attach the updated list.

7. Revisions to Maps

Were there any changes to maps included in the LMS within the past year?	<input checked="" type="checkbox"/> Yes
Reference: FAC 27P-22. 004 (4)(e)(5)	<input type="checkbox"/> No
Comments: Enclosure 3 Changes to Hazards	
	If yes, attach the updated map(s).

Please email this updated information ***by the last working weekday of January 2020*** (Friday, January 31, 2020) to your LMS State Liaison, per the enclosed map. Or you may mail your documents to the following address:

Florida Division of Emergency Management
Attention: Mitigation Planning Unit
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

Please contact your liaison with any questions. Thank you in advance for your cooperation.

ENCLOSURE 1

LIST OF MEMBERS OF THE LOCAL MITIGATION STRATEGY (LMS) WORKING GROUP



Hillsborough County Florida

ENGINEERING & OPERATIONS DEPARTMENT

PO Box 1110 Tampa, FL 33601-1110
813-635-5400 | Fax: (813) 272-5811

November 1, 2019

SUBJECT: LOCAL MITIGATION
STRATEGY WORKING GROUP MEMBER

Dear Colleague:

Thank-you for your continued acceptance to participate in serving our community through the Hillsborough County Local Mitigation Strategy Working Group (LMS WG). The work you perform as a steward to the Local Mitigation Strategy through the LMS WG is unparalleled and it greatly assists in making our community better prepared for disasters.

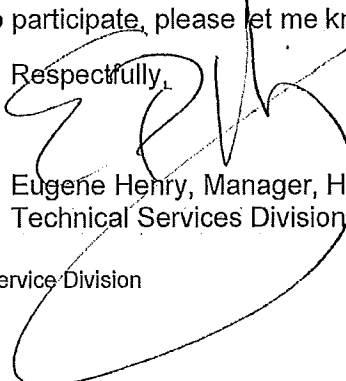
Hillsborough County's Local Mitigation Strategy (LMS) is a plan that presents a unified strategy to build a disaster-resilient community. Additionally, Florida Administrative Code (FAC) 27P-22.004 requires Hillsborough County to maintain a current LMS and a formal LMS WG. In this regard, FAC 27P-22.004 requires the County to conduct and/or apprise the Florida Division of Emergency Management of no less than the following activities on an annual basis:

1. Provide a list of the officers and members of the LMS Working Group;
2. Provide documentation of participation; and
3. Provide any updates or changes to the hazard assessment, project-priority list, critical facilities list, repetitive-loss list, and revisions to any maps.

The Hillsborough County Board of County Commissioners will approve the participant list that you have accepted to continue to be a part! It is with pleasure that Hillsborough County and I welcome you back to the Local Mitigation Strategy Working Group for the 2020 year. I look forward in working with you and having you participate in helping our community recognize risks and better prepare and mitigate areas of vulnerability.

Thank-you again for your untiring work and willingness to participate! Also, if you know of others that you would like to invite to participate, please let me know.

Respectfully,


Eugene Henry, Manager, Hazard Mitigation Program
Technical Services Division

X Leland Dicus, Director Technical Service Division
Christina Hummel, Senior Planner

BOARD OF COUNTY COMMISSIONERS

Ken Hagan

Pat Kemp

Lesley "Les" Miller, Jr.

Sandra L. Murman

Kimberly Overman

Mariella Smith

Stacy R. White

COUNTY ADMINISTRATOR

Michael S. Merrill

COUNTY ATTORNEY

Christine M. Beck

INTERNAL AUDITOR

Peggy Caskey

PUBLIC WORKS ADMINISTRATOR

John W. Lyons

First Name	Last Name	Title	CRS SubC.	Organization	Email
David	Adams	Environmental Manager		Hillsborough County	adamsds@hillsboroughcounty.org
Tom	Aderhold	Citizen		Keystone/Lutz	tom@tomaderhold.com
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Ben	Allushuski	Engineer		City of Tampa	Ben.Allushuski@tampagov.net
Amir	Anisi	Director of Community Development		Temple Terrace	aanisi@templeterrace.com
Elie	Araj	Engineer		Allied Science	earaj@appliedfl.com
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Robin	Bailey	Manager/Engineer	*	SWFWMD	robin.bailey@swfwmd.state.fl.us
Becky	Barta	CIP Project Manager		Plant City	rbarta@plantcitygov.com
Angela	Barton	Emergency Planner		Hillsborough County	bartonA@hillsboroughcounty.org
Pam	Bartley	Disaster Program Manager		Red Cross	Pam.Bartley@redcross.org
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Greg	Becker	Emergency Management Program Manager		Polk County	gregbecker@polk-county.net
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Keith	Bruton	Facilities Manager		City of Tampa	keith.bruton@tampagov.net
Donna	Budke	Administrative Specialist II		Hillsborough County	budked@hillsboroughcounty.org
D	Burnett			Plant City	DBurnett@Plantcitygov.com
Bonnie	Bush	Manager, Training and Outreach	*	COAD	bbush@crisiscenter.com
Morris	Cabezas	LMS Member	*	Citizen	moriscabezas@gmail.com
Rick	Cabrera	Engineer		Hillsborough County	cabrerar@hillsboroughcounty.org
Audrey	Cain	LMS Member (PDRP)	*	Tampa Electric Company	<a href="mailto:<AJCain@tecoenergy.com">AJCain@tecoenergy.com
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Sarah	Chason	LMS Member	*	Federal Alliance for Safe Homes	sarah@flash.org
Rich	Clarendon	Planner		Planning Commission	clarendonr@plancom.org
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Brian	Cook	Visiting Assistant Professor		USF	brianraycook@usf.edu
Sally	Cook	LMS Member		Manatee County	sally.cook@mymanatee.org
C.	Cowen	LMS Member		Tampa Bay Water	cowen@tampabaywater.org
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Steven	Davis	Emergency Planner		All Hands Consulting	steve@allhandsconsulting.com
Derek	Doughty	Planning Commissioner	*	Planning Commission/JMT Cons.	DDoughty@jmt.com
Mark	Dubina	LMS Member		Tampa Port Authority	mdubina@tampaport.com

Paul	Ducharme	LMS Member		Tampa General Hospital	Pducharme@TGH.org
Timothy	Dudley	Emergency Management Director		Hillsborough County	DudleyT@hillsboroughcounty.org
Jean	Duncan	Director		City of Tampa	jean.duncan@tampagov.net
Elizabeth	Dunn	Instructor, College of Public Health, USF	*	University of South Florida	eadunn2@mail.usf.edu
Ian	Eppig	Emergency Coordinator II		Pasco County	ieppig@pascocountyfl.net
Jennifer	Fleischman	EM Manager		University of South Florida	jfleischman@USF.edu
Lisa	Foster	Floodplain Administrator		Pinellas County	ldfoster@co.pinellas.fl.us
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Eugene	Henry	LMS Coordinator, Mgr Hazard Mitigation Prgm	*	Hillsborough County	Henrye@HillsboroughCounty.org
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J.	Judy	LMS Member	*	Citizen	jjjudy@tampabay.rr.com
Ian	Kemp	Fire Chief		Temple Terrace	ikemp@templeterrace.com
Bryan	King	Manager Emergency Response Coordinator		Hillsborough County	KingBr@hillsboroughcounty.org
Leroy	Lee	LMS Member		Dept. of Homeland Security	leroy.lee@dhs.gov
Scott	Lehman	Utility Asset Manager		Hillsborough County	lehmans@HillsboroughCounty.org
Angie	Leslie	Project Manager	*	Tampa Electric Company	asleslie@tecoenergy.com
Garry	Lisiewski	Homeland Sec. Grants Supervisor		Tampa Police Dept.	garry.lisiewski@ci.tampa.fl.us
Colleen	Marshall	Planner	*	Hillsborough County	MarshallC@hillsboroughcounty.org
Joseph	Mastandrea	EM Planner		Hillsborough County	MastandreaJ@HillsboroughCounty.org
Pamela	McDonald	LMS Member		Dept. of Homeland Security	pamela.mcdonald@dhs.gov
Daniel	McGillicuddy	Det., Homeland & Tribal Sec. Unit	*	Seminole Tribe of Florida	danmcgillicuddy@semtribe.com
Cece	McKiernan	CEO, Florida Floodplain Mgrs Assoc.	*	Florida Floodplain Mgrs Assoc.	executivedirector@ffloods.org
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Susana	Mueller	Resident		Hillsborough County	susanamueller@aol.com
Scott	Murley	Division Chief Fire		Temple Terrace	SMurley@templeterrace.com
Colette	Nasworthy	Emergency Coordinator		USF	cnaswort@usf.edu
John	Newton	Mgr Plans/Readiness & Analysis		Hillsborough County	newtonj@hillsboroughcounty.org
Seung	Park	Chief Engineer		City of Tampa	seung.park@tampagov.net
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Amy	Peterson	Mitigation Planner		FDEM	Amy.Peterson@em.myflorida.com
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Sabrina	Permeth	Director of Human Resources		Florida State Fair	Sabrina.Permuth@FloridaStateFair.com
Manny	Perotin	Engineer	*	Citizen	perotinma@cdmsmith.com
Volunteer	Resident	LMS Member		Citizen	paratrpr@tampabayrr.com
Michael	Rimoldi				mike@rimoldi.org
Ronald	Rogers	Director, Public Safety Specialists		Bracken Engineering	rrogers@brackenengineering.com
Roger	Roscoe	LMS Member		Department of Transportation	roger.roscoe@dot.state.fl.us
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Mike	Ryan	Deputy Director, Emerg. Mgmt.	*	Hillsborough County	ryanmi@hillsboroughcounty.org
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Marilyn	Smith	LMS Member		Citizen	aquella2004@yahoo.com
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Marty	Sullivan	Citizen		Strawberry Hills CERT	martys1934@gmail.com
Erick	Sumner	Mgr Geomatics Section		Hillsborough County	sumnere@hillsboroughcounty.org
Sharon	Tarman	Emergency Management Officer		Manatee County	sharon.tarman@mymanatee.org
Michael	Taylor	Principal Planner and CRS Coord.		City of Gulfport	mtaylor@mygulfport.us
Troy	Tinch	Director of Public Works		Temple Terrace	ttinch@templeterrace.com
John	Thorington	VP Government Affairs & Brd Coord.		Port Tampa Bay	jtt@tampaport.com
Calvin	Thornton	Senior Transportation Planner		City of Tampa	calvin.thornton@tampagov.net
Sandy	Tudor	LMS Member		Manatee County	sandy.tudor@mymanatee.org
John (Forest)	Turbiville	Div Mgr, Regional Parks	*	Hillsborough County	turbivillej@hillsboroughcounty.org
William	Twaite	Contracts Manager		Hillsborough County	twaitew@hillsboroughcounty.org
Gonzalo	Valdes			Sierra Club	gonzalo.valdes@sierraclub.org
Mickie	Valente	CEO	*	Valente and Assoc./Citizen	info@valenteadvisers.com
Holley	Wade	General Manager I Fire rescue		Hillsborough County	wadeh@hillsboroughcounty.org
Link	Walther	LMS Member	*	Committee Member	lwalther@lincolnwalther.com
Laura	Waterman	Hazard Mitigation Planner		Florida DEM	laura.waterman@em.myflorida.com
Charles	White	LMS Member		Red Cross	Charles.White5@Redcross.org
Matt	Wilbur	LMS Member	*	Citizen	Mwilbur@tampabay.rr.com

Michael	Williams	Director, Transportation Planning		Hillsborough County	williamsm@hillsboroughcounty.org
Stacy	Williams	Citizen		Citizen	swilliams1708@gmail.com
Ted	Williams	Senior Program Coordinator		Hillsborough County, Emrg. Mgt.	williamst@hillsboroughcounty.org
Allison	Yeh	MPO Executive Planner	*	MPO	yeha@plancom.org
Chris	Zambito	Senior Planner	*	Dewberry, LLC	czambito@dewberry.com
Melissa	Zornitta	Executive Director		Planning Commission	zornittam@plancom.org

INSURANCE:

First Name	Last Name	Title	CRS SubC.	Organization	Email
Dawn	Forrest	Communications Specialist		Wright Flood	dawn.forrest@weareflood.com
Brad	Hubbard			National Flood Experts Insurance	bhubbard@nationalfloodexperts.com
Patty	Latshaw	Principal Flood Coordinator and National CRS Working Group		Wright Flood	patricia.latshaw@weareflood.com
Betty	Ryals	Regional Sales Manager		Wright Flood	Betty.Ryals@weareflood.com
Ashley	Tharp	Corporate Agent Training Manager	*	Wright Flood	Ashley.Tharp@weareflood.com
Pete	Travis			Torrent Technologies, Inc.	Pete.Travis@torrentcorp.com
Katherine	Howington			Bankers Insurance Group	Katherine.howington@bankersinsurance.com

REAL ESTATE

First Name	Last Name	Title	CRS SubC.	Organization	Email
Mike	Peterson				
Ryan	Holding	Realtor			RealEstateRyan.KW@gmail.com

ENCLOSURE 2

LMS INVITES AND AGENDAS



Hillsborough County Florida

ENGINEERING & OPERATIONS DEPARTMENT

PO Box 1110 Tampa, FL 33601-1110
813-635-5400 | Fax: (813) 272-5811

November 1, 2019

SUBJECT: LOCAL MITIGATION
STRATEGY WORKING GROUP MEMBER

Dear Colleague:

Thank-you for your continued acceptance to participate in serving our community through the Hillsborough County Local Mitigation Strategy Working Group (LMS WG). The work you perform as a steward to the Local Mitigation Strategy through the LMS WG is unparalleled and it greatly assists in making our community better prepared for disasters.

Hillsborough County's Local Mitigation Strategy (LMS) is a plan that presents a unified strategy to build a disaster-resilient community. Additionally, Florida Administrative Code (FAC) 27P-22.004 requires Hillsborough County to maintain a current LMS and a formal LMS WG. In this regard, FAC 27P-22.004 requires the County to conduct and/or apprise the Florida Division of Emergency Management of no less than the following activities on an annual basis:

1. Provide a list of the officers and members of the LMS Working Group;
2. Provide documentation of participation; and
3. Provide any updates or changes to the hazard assessment, project-priority list, critical facilities list, repetitive-loss list, and revisions to any maps.

The Hillsborough County Board of County Commissioners will approve the participant list that you have accepted to continue to be a part! It is with pleasure that Hillsborough County and I welcome you back to the Local Mitigation Strategy Working Group for the 2020 year. I look forward in working with you and having you participate in helping our community recognize risks and better prepare and mitigate areas of vulnerability.

Thank-you again for your untiring work and willingness to participate! Also, if you know of others that you would like to invite to participate, please let me know.

Respectfully,


Eugene Henry, Manager, Hazard Mitigation Program
Technical Services Division

X Leland Dicus, Director Technical Service Division
Christina Hummel, Senior Planner

BOARD OF COUNTY COMMISSIONERS

Ken Hagan
Pat Kemp

Lesley "Les" Miller, Jr.

Sandra L. Murman

Kimberly Overman

Mariella Smith

Stacy R. White

COUNTY ADMINISTRATOR

Michael S. Merrill

COUNTY ATTORNEY

Christine M. Beck

INTERNAL AUDITOR

Peggy Caskey

PUBLIC WORKS ADMINISTRATOR

John W. Lyons

AGENDA
Local Mitigation Strategy Working Group (LMS WG)
February 27, 2019 1:30 pm

Children's Board of Hillsborough County

1002 E Palm Ave., Tampa, FL 33605

Conference call: 1-(605) 468-8035

Pin: 191-3636

- | | | |
|---|---------------------------------|------|
| 1. Welcome | Elizabeth Dunn/
Eugene Henry | 1:30 |
| a. Introductions | | |
| b. Membership | | |
| c. Minutes | | |
| 2. Annual Update and 5 yr update for the LMS Document | Eugene Henry | 2:10 |
| a. Meeting calendar and attendance | | |
| b. Annual update was accepted | | |
| 3. Hazard Mitigation Program Updates | Eugene Henry
Chris Zambito | 2:20 |
| a. LMS Plan updates | | |
| b. Critical facilities and other updates | | |
| i. Update required of the LMS Appendix, re-prioritization | | |
| c. CRS Update | | |
| 4. Mitigation Projects, Hurricane IRMA HMGP post-disaster grant funding | No Update | 2:30 |
| 5. National Flood Insurance Program (NFIP) - Community Rating System (CRS) subcommittee | Christina Hummel | 3:00 |
| a. Public Information Outreach Subcommittee | | |
| 6. Next Meeting/ Other business | Eugene Henry | 3:30 |
| a. LMSWG Agency news/upcoming events | | |
| b. Meeting | | |
| LMS WG subcommittee meetings | | |
| LMS WG (CRS Subcommittee) | | |
| See attached tentative schedule | | |
| 7. Adjourn | Elizabeth Dunn/
Eugene Henry | |

Local Mitigation Strategy Working Group




The LMS WG is the community-wide all-hazards committee and will conduct the following business: the Floodplain Management Plan, the Community Rating System (NFIP/CRS), and work to begin on the five year update to the Local Mitigation Strategy and Disaster assistance grants. Subcommittees to work the update and NFIP/ CRS activities.

Alternate meeting method

If you can't attend the meeting in person, you can participate through a conference call-in. Please use the following to access the call:

- Phone number: 1-888-670-3525
- Participant code: 560-425-8412

Event Details

 LOCATION	Children's Board of Hillsborough County 1002 Palm Ave. Tampa FL, 33605
 DATE	February 27, 2019 1:30 PM
 CONTACT	Christina Hummel P (813) 307-1800

NOTES
Local Mitigation Strategy Working Group (LMS WG)
February 27, 2019 1:30 pm

Attendees: Christina Hummel, Gene Henry, Elizabeth Dunn, Chris Zambito, Steven Castonguay, Angela Barton, Matt Goolsby, Amy Beams, Angie Leslie, Troy Tinch, Cara Serra, Garry Lisiewsky, Simon Bollin, Andrea Roshaven, Oliver Greene, Tom Magnuson, Terry Ritter, Miles Procko-Oliveri,

Phone Call in: Barbara Spaulding, Bill Twaite, Erinn Skiba, Ian Eppig,

- | | | |
|-------------------------|---|------|
| 1. <i>Welcome</i> | <i>Elizabeth Dunn/
Eugene Henry</i> | 1:30 |
| a. <i>Introductions</i> | | |
| b. <i>Membership</i> | | |
| c. <i>Minutes</i> | | |

Introductions were made and the minutes from December 4, 2018 were approved.

- | | | |
|--|---------------------|------|
| 2. <i>Annual Update and 5 yr update for the LMS Document</i> | <i>Eugene Henry</i> | 2:10 |
| a. <i>Meeting calendar and attendance</i> | | |
| b. <i>Annual update was accepted</i> | | |

Mr Henry briefly provided an update of a meeting that had occurred the same day at the EOC. Discussed at that meeting were mapping issues and which data was still needed for the LMS update. USF is providing data pertaining to vulnerabilities as well as the peril of flood project. There is still data needed to update all the tables from chapters 3 and 4 in the current LMS. The mapping will also include all the projects in the future. Also, the annual update to the LMS was approved by the state and the approval letter was handed out in the meeting. HC has also secured a consultant to work on the LMS team on the 5 year update. Chapter one was updated with the new governance and sent out for a first review. Mr Henry mentioned the dates for the open house of the new Coastal FIRM maps. Open houses will be April 3 and 4, 2019. Letters about flood zone changes will be sent directly to affected property owners from the city and county.

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|--|---------------------------------------|------|
| 3. <i>Hazard Mitigation Program Updates</i> | <i>Eugene Henry
Chris Zambito</i> | 2:20 |
| a. <i>LMS Plan updates</i> | | |
| b. <i>Critical facilities and other updates</i> | | |
| i. <i>Update required of the LMS Appendix, re-prioritization</i> | | |
| c. <i>CRS Update</i> | | |

Mr Henry introduced Mr Zambito who was talking about the time lines for the LMS updates and required items that needed to be addressed in the coming year for the LMS update. A calendar of all the meetings pertaining to the LMS and CRS tasks will be presented at the next meeting. The LMS document is scheduled to be completed in draft form by January 2020 to be sent to the state for review. Public meetings will be scheduled within 60 days from the kick off meeting. The current project list will be updated and the process more streamlined. Also, hazards should line up with the hazards presented/ stated in the State plan for consistency. Critical facilities will be updated but that information is protected and will not be available for the public.

- | | |
|--|------|
| 4. <i>Mitigation Projects, Hurricane IRMA HMGP post-disaster grant funding No Update</i> | 2:30 |
|--|------|

The State has contacted the City of Tampa about their projects/ HMGP grants but the project awards had not been finalized.

- | |
|--|
| 5. <i>National Flood Insurance Program (NFIP) - Community Rating System (CRS) subcommittee</i> |
|--|

a. *Public Information Outreach Subcommittee*

The CRS committee will be working to move the current strategy into a proper Program for public information (PPI) in conjunction with the required CRS update in late 2019 or early 2020. Updating the stakeholder list and including insurance and real estate professionals needs to be included in the PPI.

- | | | |
|--------------------------------------|---------------------------------|------|
| 6. Next Meeting/ Other business | Eugene Henry | 3:30 |
| a. LMSWG Agency news/upcoming events | | |
| b. Meeting | | |
| LMS WG subcommittee meetings | | |
| LMS WG (CRS Subcommittee) | | |
| See attached tentative schedule | | |
|
 | | |
| 7. Adjourn | Elizabeth Dunn/
Eugene Henry | |

Hillsborough County Local Mitigation Strategy Working Group Meeting
Sign-in Sheet; February 27, 2019

Name	Organization	Phone Number	email
Angie Leslie	TECO	813.228.4459	asleslie@tecoenergy.com
Angela Barton	HEDEM	813-272-6621	barton a @ hctflgov.net
Simon Bollin	HC Econ Dev	813-276-2735	bollins@hctflgov.net
Amy Beams	Pasco BOPC	352 302 8702	abeams@pascocountyfl.net
M. Coakley	Applied Sci	813 278 0000	mcoakley@appliedsci.com

Open to
Reserve Room
and Exhibit Board



Children's Board
HILLSBOROUGH COUNTY

www.ChildrensBoard.org

LOCAL MITIGATION
STRATEGY

Meeting Name

Today's Date

Meeting Time

Expected Attendance

Actual Attendance

FEB. 27, 2019

1:00PM - 4:00PM

(30)

Children's Board Meeting Room Guest Sign-In

(WEST ONE)

	Name	Organization	E-Mail
1	Angie Leslie	TECO	asleslie@tecoenergy.com
2	Troy Tinch	City Temple Terrace	troy.tinch@templeterrace.com
3	Cara Serra	TBRPC	Cara@tbrpc.org
4	Garry Lisiewski	Tampa Bay UAB1	Garry.Lisiewski@tampabay.net
5	Angela Barton	HCDEM	bartona@hclgov.net
6	Amy Beams	Pasco County BOCC	abeams@pascocountyfl.net
7	Simon Bollin	Hills. Co. Econ. Dev	bollins@hclgov.net
8	Chris Zambito	Atkins	chris.zambito@atkinsglobal.com
9	Andrew Roshaven	Hills City Communities	RoshavenA@hclgov.net
10	Matt Goolsby	Applied Sciences	mgoolsby@appliedfi.com
11	LIVER STERNE	CANPA EIA	CLIVER.STERNE@CANPAGOV.NET
12	TOM MAGNUSON	CANPA EIA	TOM.MAGNUSON@CANPAGOV.NET
13	TERRY R RITTER	PLANT CITY	TRITTER@PLANTCITYGOV.COM
14	Miles Procko-Oliveri	Pinellas County	mprocko-oliveri@pinellascounty.org
15	Steven Castonbury	FDOT - Hillsborough	scastonbury@flhealth.gov
16	Elizabeth Dunn	USFCOPH	edunn@mail.usf.edu
17	Angela Barton		
18	Christina Hummel	HC PW	on file
19	Gene Henry	HC PW	

AGENDA
Local Mitigation Strategy Working Group (LMS WG)
March 26, 2019 1:30 pm

HC Service Center, Veteran Services

311 Pauls Dr, Brandon, FL 33511

Conference call: 1-(605) 468-8035

Pin: 191-3636

- | | | |
|---|---------------------------------|------|
| 1. Welcome | Elizabeth Dunn/
Eugene Henry | 1:30 |
| a. Introductions | | |
| b. Membership | | |
| c. Minutes | | |
| | | |
| 2. 5 Year update for the LMS Document | Eugene Henry
Chris Zambito | 1:45 |
| a. Meeting calendar and attendance | | |
| b. Subcommittees for review of documents | | |
| | | |
| 3. Hazard Mitigation Program Updates | Eugene Henry
Chris Zambito | 2:00 |
| a. LMS Plan updates | | |
| b. Critical facilities and other updates | | |
| i. Update required of the LMS Appendix, re-prioritization | | |
| c. CRS Update - Activities for 330, 510 and 610:
Community Outreach Strategy, Floodplain Management and Repetitive Loss Areas, and Emergency
Flood warnings
Note: Activity 510 is an annual requirement. | | |
| | | |
| 4. Mitigation Projects, Hurricane IRMA HMGP post-disaster grant funding | No Update | 2:30 |
| | | |
| 5. National Flood Insurance Program (NFIP) - Community Rating System (CRS) subcommittee | | 3:00 |
| a. Coastal Mapping Update | Christina Hummel | |
| b. Public Information Outreach Subcommittee | | |
| | | |
| 6. Next Meeting/ Other business | Eugene Henry | 3:30 |
| a. LMSWG Agency news/upcoming events | | |
| b. Meeting | | |
| LMS WG subcommittee meetings | | |
| LMS WG (CRS Subcommittee) | | |
| See attached tentative schedule | | |
| | | |
| 7. Adjourn | Elizabeth Dunn/
Eugene Henry | |

AGENDA
Local Mitigation Strategy Working Group (LMS WG)
March 26, 2019 1:30 pm

Attendees: Christina Hummel, Gene Henry, Chris Zambito, Steven Castonguay, Troy Tinch, Andrea Roshaven, Tom Magnuson, Miles Procko-Oliveri, Scott Lehman, Joe Mastandrea, Brad Hubbard, Bart Weiss, Tim Mossgrove, Kensuke Otsuyama, Ashley Tharp, David Burnett, Ian Kemp,

Phone Call in: Barbara Spaulding, Bill Twaite, Matt Goolsby, Cara Serra, Garry Lisiewsky, Angie Leslie, Shawn College,

- | | | |
|-------------------------|---|------|
| 1. <i>Welcome</i> | <i>Elizabeth Dunn/
Eugene Henry</i> | 1:30 |
| a. <i>Introductions</i> | | |
| b. <i>Membership</i> | | |
| c. <i>Minutes</i> | | |

Introductions were made and the minutes from February 27, 2019 were approved.

- | | | |
|---|---------------------------------------|------|
| 2. <i>5 Year update for the LMS Document</i> | <i>Eugene Henry
Chris Zambito</i> | 1:45 |
| a. <i>Meeting calendar and attendance</i> | | |
| b. <i>Subcommittees for review of documents</i> | | |

Mr Henry stated that this meeting will be the kick off meeting for the LMS -5 year update. The public meeting will need to be scheduled within 60 days of this meeting which bring them to the end of May. This kick off meeting is part of the 510 planning process for the flood plain management component out of the CRS manual which requires each municipality to have two people in attendance for the meetings. During the update process, the county is asking each municipality for their involvement so we all will comply with the Stafford Act and that each municipality host one of the public meetings in the late spring months and late fall.

Mr Zambito went over the calendar for the requirement of internal and public meetings. With the March 26 meeting being the kick off, the public meetings will be starting the end of May. The first public meeting is tentatively scheduled for May21. This meeting will present some of the updates and let the public provide input. The second public meeting will present the draft documents. Chapters 3 and 4 are very detailed in describing the hazards the county is facing and vulnerabilities the county has, as well as mitigation techniques. The county is working with USF to update these two chapters in its entirety.

The CRS subcommittee will meet in October to review the outreach plan for the following year. The group will look at updating strategies and including more social media outlet for communicating with the public.

A few members of the WG will be pulled into a technical group for the more detailed review of the draft chapters. The entire project list will be revamped. Hopefully, we can get each municipality to get at least one project each year ready for available grant money. Chapter will be undated and a governance section will be included. Sea level rise will also be incorporated into the chapters.

- | | | |
|---|---------------------------------------|------|
| 3. <i>Hazard Mitigation Program Updates</i> | <i>Eugene Henry
Chris Zambito</i> | 2:00 |
| a. <i>LMS Plan updates</i> | | |
| b. <i>Critical facilities and other updates</i> | | |
| i. <i>Update required of the LMS Appendix, re-prioritization</i> | | |
| c. <i>CRS Update - Activities for 330, 510 and 610:</i> | | |
| <i>Community Outreach Strategy, Floodplain Management and Repetitive Loss Areas, and Emergency Flood warnings</i> | | |

Note: Activity 510 is an annual requirement.

Mr Henry states that all Critical facilities are being map by Geospatial services which is a requirement for the LMS update. The county is currently working on the 1 yr CRS update and once complete, we will step into the 3 Yr audit later this fall. We are currently updating the 510 report which addresses repetitive flood loss and will be sending this out to the WG soon. The 610 and 330 report are also being reviewed. The county is also looking at all the ECs for this year and verifying that all have been received. The 610 report addresses the 3 dams in the county and exercises for the sirens. Pertaining to the 330 activities, the county completed most requires activities with the help of the communication department.

- 4. *Mitigation Projects, Hurricane IRMA HMGP post-disaster grant funding No Update* 2:30

- 5. National Flood Insurance Program (NFIP) - Community Rating System (CRS) subcommittee 3:00
 - a. Coastal Mapping Update Christina Hummel
 - b. Public Information Outreach Subcommittee

The county has received the new preliminary Coastal Maps. Open house for the public are scheduled for April 3 and 4.

- 6. Next Meeting/ Other business Eugene Henry 3:30
 - a. LMSWG Agency news/upcoming events
 - b. Meeting
 - LMS WG subcommittee meetings
 - LMS WG (CRS Subcommittee)
 - See attached tentative schedule

- 7. Adjourn Elizabeth Dunn/
Eugene Henry

Meeting adjourned at 250 pm

Local Mitigation Strategy Working Group

The LMS WG is the community-wide all-hazards committee and will conduct the following business: the Floodplain Management Plan, the Community Rating System (NFIP/CRS), and work to begin on the five year update to the Local Mitigation Strategy and Disaster assistance grants. Subcommittees to work the update and NFIP/ CRS activities.

Alternate meeting method

If you can't attend the meeting in person, you can participate through a conference call-in. Please use the following to access the call:

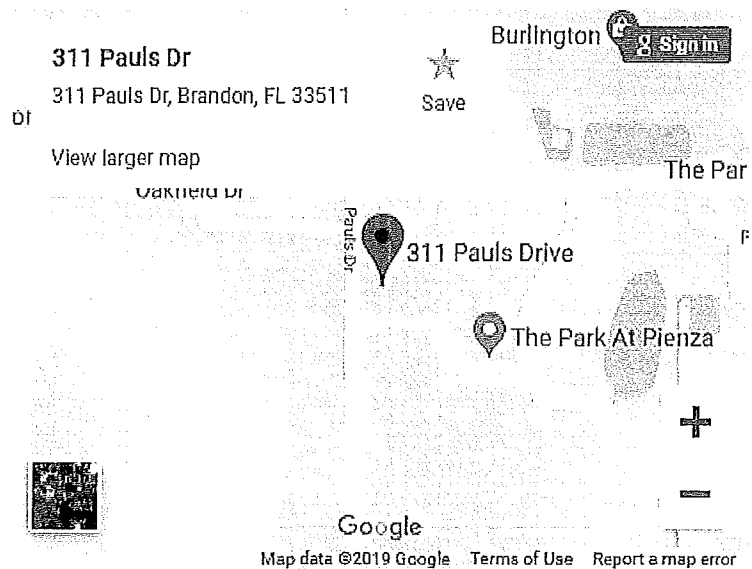
- Phone number: (605) 468-8035
- Participant code: 191-3636

Event Details

LOCATION Brandon Regional Service Center
311 Pauls Dr.
Brandon FL, 33511

DATE March 26, 2019 | 1:30 PM

CONTACT Christina Hummel
P (813) 307-1800



Hillsborough County Local Mitigation Strategy Working Group Meeting
Sign-in Sheet; March 26, 2019

Name	Organization	Phone Number	email
Kensuke Otsuyama	Kyoto Univ.	312-860-4667	kensukeco2@yahoo.co.jp
Ashley Inard	Wright Flood	727-248-8414	Aadnard@aol.com
Steven Ostrom	FDOT	813-299-0214	on file
Tom Magnuson	City of Tampa	813-695-9440	tom.magnuson@tampagov.net
Andrea Roshaven	Hillsborough County	813-307-8380	roshavena@hc-fl.gov
Miles Procko-Olivieri	Pinellas County	713-215-0299	mprocko-olivieri@pinellascounty.org
David Burnett	City of Plant City	813-757-9131	dburnett@plantcity.gov
LAN ICEMP	TEMPLE TERRACE FIRE	813 506 6702	lkemp@templeterrace.com

Hillsborough County Local Mitigation Strategy Working Group Meeting
Sign-in Sheet; March 26, 2019

Name	Organization	Phone Number	email
JOE MASTANDREA	HCOEM	813-272-5335	mastrandrea@hcf.gov.net
Scott Lehman	HC PUD	914-602-5250	lehmans@hillsboroughcounty.org
BRAD HUBBARD	NATIONAL FLOOD EXPERTS	813-540-4007	BRAD@NATIONALFLOODEXPERTS.COM
TROY TUNICH	Temple Terrace	813-506-6975	troy.tunich@templeterrace.com
BART WEISS	HC PUD	(813) 209-3000	WEISS@HCF.GOV.NET
Chris Zambito	Atkins	813 244-1654	chris.zambito@atkinsglobal.com
TIM MOSSGROVE	PCR	813 757-9131	TMOSSGROVE@PLANTLITY.GOV.COM

Gene
Christine



**Hillsborough
County Florida**

Public Information Meeting

Help Update Hillsborough County's All-Hazards and Floodplain Management Plan

Hillsborough County residents and business owners, including those in Tampa, Temple Terrace and Plant City, are invited to participate in developing the community's risk mitigation strategy by providing feedback on the update to Hillsborough County's Local Mitigation Strategy and Floodplain Management Plan (LMS).

The LMS is the all-hazards guide developed to provide the community information about the risks – such as floods, wildfires, tornados, thunderstorms, and hurricanes – that they could possibly face while living in Hillsborough County. It also includes the mitigation techniques that residents, businesses, and local government may implement to help lessen the risks.

The meetings will have an open house format, and Public Works Hazard Mitigation staff will:

- Answer questions and receive suggestions from residents
- Provide information about what local government is doing to mitigate hazards
- Present the process of how the LMS is being updated
- Explain how residents can take action to protect their families, businesses, and property

Attend any of the following meetings:

Monday, May 13	Tuesday, May 14	Wednesday, May 15	Thursday, May 16
6 p.m.	6 p.m.	6 p.m.	5 p.m.
Jan Kaminis Platt Regional Library	Maureen B. Gauzza Library	Bruton Memorial Library	Southshore Regional Service Center
3910 S. Manhattan Ave. in Tampa	11211 Countryway Blvd. in Tampa	302 McLendon St. in Plant City	410 30th St. SE in Ruskin

For more information about the County's Hazard Mitigation Programs, visit HCFLGov.net.

Questions about the meeting may be directed to Citizen Engagement at (813) 272-5275. Para información, llamar al (813) 272-5275. For individuals who require hearing or speech assistance, please call 711. In accordance with the Americans with Disabilities Act, persons with disabilities who need an accommodation to participate, such as large print or an interpreter, should contact Hillsborough County Customer Service & Support at (813) 272-5900 or TTY Relay: 711 no later than 48 hours prior to the meeting.

AGENDA
Local Mitigation Strategy Working Group (LMS WG)
August 22, 2019 1:30 pm

Hillsborough County Planning Commission

601 E Kennedy, Tampa, FL 33602

18th floor Hillsborough room

Please join my meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/614902893>

You can also dial in using your phone.

United States: +1 (872) 240-3212

Access Code: 614-902-893

1. Welcome Elizabeth Dunn/Eugene Henry 1:30
 - a. Introductions
 - b. Membership
 - c. Approval of Minutes

2. CRS Program Status Christina Hummel/ Eugene Henry 1:35
 - a. Flood mitigation assistance grant acquisition project (Public Notice)

3. 5 Year update for the LMS Document Eugene Henry/ Chris Zambito 1:40
 - a. Meeting calendar and attendance
 - b. Project Timeline and Key Milestones
 - c. Floodplain Management Plan

4. Planning Eugene Henry/Chris Zambito 1:50
 - a. Plan Layout: streamline of content and consistency with State Plan
 - b. Outreach: Recap of public meetings and the CRS benefit (FMP)
 - c. Governance: Consolidation of items from the current plan
 - i. Membership, attendance, and voting
 - ii. Conflict resolution appendix (is this needed anymore?)
 - iii. Discussion of new oversight group (Planning Commission as opposed to original DRC)
 - d. Approval of revised format

5. Hazard ID and Risk Assessment Chris Zambito /Eugene Henry 2:10
 - a. Nomenclature of hazards (create consistent hazard categories and reconcile with State Plan?)
 - b. USF Update
 - c. Hillsborough County GIS Update
 - d. Tampa Update
 - e. Tech/Manmade Hazards – Update from discussion with Garry on THIRA or other data sources

6. Future Meetings Eugene Henry/Chris Zambito 2:50
- a. September – Strategy Focus – Prepare for Meeting
 - i. Capability assessment (some overlap with USF flood task)
 - ii. Status of projects (start catalog of remove/on-hold/new/completed projects)
 - iii. Any proposed revisions to the project form
 - iv. USF update/presentation on mitigation approaches for flood
 - b. October
 - i. Approve maintenance process
 - ii. Working draft plan information
 - iii. Lock-in path forward (public meeting outreach, draft to LMS WG, BOCC meetings)
 - iv. Determine future LMS WG meetings depending on status of plan update

7. Next Meeting/ Other business Eugene Henry 3:00
- a. CRS Outreach/Activity 330 Status
 - b. Potential projects for this year and status of IRMA HMGP applications
 - c. Flood Damage Control regulations
 - d. FEMA FIRM Coastal Maps
 - e. Status of Community Vulnerability project and MPO Resilience project
 - f. Floodplain Management Plan (any new information to be incorporated into LMS)

8. Adjourn Elizabeth Dunn/Eugene Henry

Public Notice Flood Mitigation Assistance Grant Acquisition Project

August 22, 2019: NOTICE

JOINT FEDERAL, STATE, LOCAL PUBLIC NOTICE

The Federal Emergency Management Agency (FEMA) and Florida Division of Emergency Management (FDEM) have received the following application for Federal grant funding. Final notice is hereby given of the FEMA consideration to provide funding in the form of a Flood Mitigation Assistance Program Grant.

Under the National Environmental Policy Act (NEPA), federal actions must be reviewed and evaluated for feasible alternatives and for social, economic, historic, environmental, legal, and safety considerations. Under Executive Order (EO) 11988 and EO 11990 FEMA is required to consider alternatives and to provide public notice of any proposed actions in or affecting floodplains or wetlands. EO 12898 also requires FEMA provide the opportunity for public participation in the planning process and to consider potential impacts to minority or low-income populations.

Funding for the proposed project will be conditional upon compliance with all applicable federal, tribal, state and local laws, regulations, floodplain standards, permit requirements and conditions.

Applicant: Hillsborough County Board of County Commissioners

Project Title: FMA-FL-2015-011 - Hillsborough - Sonora Drive Acquisition

Location of Proposed Work: The area affected by this project consists of one (1) residential property located in Gibsonton, Florida.

Proposed Work and Purpose: Hillsborough County intends to facilitate the acquisition of one (1) residential property located in the community's Special Flood Hazard Area (SFHA); whereby, funds for this project are principally through a Federal Grant. The structure has experienced flood losses, and the project will eliminate damages. The scope of work includes acquisition of property, demolition of the structure, clearing of impervious driveway, and any other impervious areas within the floodplain, debris removal, abandonment of water wells & septic system, and disconnection of all utilities, installation of perimeter fencing, and restoration of the site to natural conditions.

The site will be cleared, the land shall be converted to open space. Deed restrictions will be recorded consistent with FEMA program requirements concerning the acquisition of property for open space [44 CFR 206.434 (e)].

The project shall provide protection against a 100-year storm event.

All activity will meet the requirements pursuant to the National Flood Insurance Program (NFIP). All construction materials below the BFE will be flood-resistant and code compliant. The project will meet all applicable codes and regulations. At a minimum, the following will be submitted to the State and FEMA for programmatic final inspection: Recorded Deed with open space restrictions.

Project Alternatives:

The alternatives to the project that have been considered are 1) the no action alternative and 2) structure elevation/relocation/mitigation reconstruction. These alternatives to the proposed project are not viable because under alternative one, the property will remain vulnerable to flood risks, including property damage and health hazards; as such, continued negative impacts on the property, residents, and community may be experienced; and under Alternative two, structure elevation/relocation/mitigation reconstruction would be difficult due to the structures' age, slab on grade foundations, and finished floor elevation height required, and the cost to rebuild the structure.

Comment Period:

Comments are solicited from the public; local, state, tribal, or federal agencies; and other interested parties in order to consider and evaluate the impacts of the proposed project. The comments should be made in writing and addressed to

the Florida Division of Emergency Management, Bureau of Recovery and Mitigation, 2555 Shumard Oak Blvd., Tallahassee, FL 32399-2100. These are due within 30 days of this notice. The State will forward comments to applicable regulatory agencies as needed. Interested persons may submit comments, obtain more detailed information about the proposed action, or request a copy of the findings by contacting:

Eugene Henry, Hazard Mitigation Program Manager and Floodplain Administrator, Hillsborough County, Florida at (813) 307-4541 HenryE@HillsboroughCounty.ORG

or

William Twaite, Contracts Manager, Hazard Mitigation, Hillsborough County, Florida at (813) 276-8245 TwaiteW@HillsboroughCounty.org

or,

Paula Catledge, Florida Division of Emergency Management, (407) 888-3784, Paula.Catledge@em.myflorida.com

MINUTES
Local Mitigation Strategy Working Group (LMS WG)
August 22, 2019 1:30 pm

Attendees: Christina Hummel, Gene Henry, Chris Zambito, Joe Mastandrea, Bart Weiss, Ashley Tharp, Ian Kemp, Shawn College, Bill Twaite, Matt Goolsby, Allison Yeh, Scott Murley, Derek Doughty, Enrique Lairet, Ashley Hendrick, Audrey Cain, Daniel Gessman, Kevin Moran, Troy Salisbury, Simon Bollin, Elizabeth Ciesla, Jen Fleischman, Brian Cook, Kyla Booher, Elizabeth Dunn

Phone Call in: Barbara Spaulding, Cara Serra, COT Stormwater, Magaret Walton, Vince Kiffner, Angela Aborizk, Erinn Skiba, Holley Wade

1. *Welcome* *Elizabeth Dunn/Eugene Henry 1:30*
- a. *Introductions*
 - b. *Membership*
 - c. *Approval of Minutes*

Introductions were made, minutes from March meeting were approved. Membership reminder for CRS and Floodplain Management Plan (FMP) compliance was brought up.

2. *CRS Program Status* *Christina Hummel/ Eugene Henry 1:35*
- a. *Flood mitigation assistance grant acquisition project (Public Notice)*

Gene Henry explained CRS program and benefits and the attached grant application. He also mentioned that we will be having our CRS 3-year recertification coming up this fall. Bill Twaite explained in more detail the grant application for Sonora Drive and the benefits for the county. Publicly noticing that County is applying for additional funds to purchase property (changing from demo/rebuild project to acquisition).

3. *5 Year update for the LMS Document* *Eugene Henry/ Chris Zambito 1:40*
- a. *Meeting calendar and attendance*
 - b. *Project Timeline and Key Milestones*
 - c. *Floodplain Management Plan*

4. *Planning* *Eugene Henry/Chris Zambito 1:50*
- a. *Plan Layout: streamline of content and consistency with State Plan*
 - b. *Outreach: Recap of public meetings and the CRS benefit (FMP)*
 - c. *Governance: Consolidation of items from the current plan*
 - i. *Membership, attendance, and voting*
 - ii. *Conflict resolution appendix (is this needed anymore?)*
 - iii. *Discussion of new oversight group (Planning Commission as opposed to original DRC)*
 - d. *Approval of revised format*

5. *Hazard ID and Risk Assessment* *Chris Zambito /Eugene Henry 2:10*
- a. *Nomenclature of hazards (create consistent hazard categories and reconcile with State Plan?)*
 - b. *USF Update*
 - c. *Hillsborough County GIS Update*
 - d. *Tampa Update*
 - e. *Tech/Manmade Hazards – Update from discussion with Garry on THIRA or other data sources*

Items 3 through 5 were all covered by Chris Zambito with a PPT presentation. CZ explained the new outline and the adjustment of the new document to follow more closely the state format. The changes and the new format were approved by the WG. CZ went over the remaining time line and what will be handled over the next 5 months. Brian Cook asked about pre, during and post disaster risks and mitigation, and if they would be included for each hazard. GH went over the 4 open house meetings held in May to meet the public outreach requirements of CRS and LMS. CZ discussed suggested language for a potential governance/bylaws section that would better identify voting procedures, attendance requirements, and project review procedures. There were questions about the ranking of future projects as well as adding future projects and reevaluating the old project list. There will be more outreach meetings in the fall to present the draft document to the public for comments. CZ went over the hazard identification and risk assessment (HIRA) section and showed a gap analysis that identifies where we have new information from the County/USF/Tampa and where we need analysis.

A statement was made by GH that now would be a good time to look for new projects to be ready for the next grant opportunities. He also noted that when planning for projects, be aware and identify any local match requirements.

6. *Future Meetings* *Eugene Henry/Chris Zambito* 2:50
- a. *September – Strategy Focus – Prepare for Meeting*
 - i. *Capability assessment (some overlap with USF flood task)*
 - ii. *Status of projects (start catalog of remove/on-hold/new/completed projects)*
 - iii. *Any proposed revisions to the project form*
 - iv. *USF update/presentation on mitigation approaches for flood*
 - b. *October*
 - i. *Approve maintenance process*
 - ii. *Working draft plan information*
 - iii. *Lock-in path forward (public meeting outreach, draft to LMS WG, BOCC meetings)*
 - iv. *Determine future LMS WG meetings depending on status of plan update*

The next meeting will be focusing on strategy and project list update. This includes a detail look at any modifications/additions/removals to current goals and objectives. Pinellas County's goals and objectives were provided as a resource for consideration. The meeting will also cover projects/initiatives to be included in the Plan update.

7. *Next Meeting/ Other business* *Eugene Henry* 3:00
- a. *CRS Outreach/Activity 330 Status*
 - b. *Potential projects for this year and status of IRMA HMGP applications*
 - c. *Flood Damage Control regulations*
 - d. *FEMA FIRM Coastal Maps*
 - e. *Status of Community Vulnerability project and MPO Resilience project*
 - f. *Floodplain Management Plan (any new information to be incorporated into LMS)*

GH mentioned that the appeal period for the coastal map update will begin soon and that the county is working on updating the Flood damage control regulations. He also mentioned that the Floodplain management Plan will be incorporated into the LMS document via the 510 CRS steps.

8. *Adjourn* *Elizabeth Dunn/Eugene Henry*

Meeting was adjourned at 3.20 pm.

Public Notice Flood Mitigation Assistance Grant Acquisition Project

August 22, 2019: NOTICE

JOINT FEDERAL, STATE, LOCAL PUBLIC NOTICE

The Federal Emergency Management Agency (FEMA) and Florida Division of Emergency Management (FDEM) have received the following application for Federal grant funding. Final notice is hereby given of the FEMA consideration to provide funding in the form of a Flood Mitigation Assistance Program Grant.

Under the National Environmental Policy Act (NEPA), federal actions must be reviewed and evaluated for feasible alternatives and for social, economic, historic, environmental, legal, and safety considerations. Under Executive Order (EO) 11988 and EO 11990 FEMA is required to consider alternatives and to provide public notice of any proposed actions in or affecting floodplains or wetlands. EO 12898 also requires FEMA provide the opportunity for public participation in the planning process and to consider potential impacts to minority or low-income populations.

Funding for the proposed project will be conditional upon compliance with all applicable federal, tribal, state and local laws, regulations, floodplain standards, permit requirements and conditions.

Applicant: Hillsborough County Board of County Commissioners

Project Title: FMA-FL-2015-011 - Hillsborough - Sonora Drive Acquisition

Location of Proposed Work: The area affected by this project consists of one (1) residential property located in Gibsonton, Florida.

Proposed Work and Purpose: Hillsborough County intends to facilitate the acquisition of one (1) residential property located in the community's Special Flood Hazard Area (SFHA); whereby, funds for this project are principally through a Federal Grant. The structure has experienced flood losses, and the project will eliminate damages. The scope of work includes acquisition of property, demolition of the structure, clearing of impervious driveway, and any other impervious areas within the floodplain, debris removal, abandonment of water wells & septic system, and disconnection of all utilities, installation of perimeter fencing, and restoration of the site to natural conditions.

The site will be cleared, the land shall be converted to open space. Deed restrictions will be recorded consistent with FEMA program requirements concerning the acquisition of property for open space [44 CFR 206.434 (e)].

The project shall provide protection against a 100-year storm event.

All activity will meet the requirements pursuant to the National Flood Insurance Program (NFIP). All construction materials below the BFE will be flood-resistant and code compliant. The project will meet all applicable codes and regulations. At a minimum, the following will be submitted to the State and FEMA for programmatic final inspection: Recorded Deed with open space restrictions.

Project Alternatives:

The alternatives to the project that have been considered are 1) the no action alternative and 2) structure elevation/relocation/mitigation reconstruction. These alternatives to the proposed project are not viable because under alternative one, the property will remain vulnerable to flood risks, including property damage and health hazards; as such, continued negative impacts on the property, residents, and community may be experienced; and under Alternative two, structure elevation/relocation/mitigation reconstruction would be difficult due to the structures' age, slab on grade foundations, and finished floor elevation height required, and the cost to rebuild the structure.

Comment Period:

Comments are solicited from the public; local, state, tribal, or federal agencies; and other interested parties in order to consider and evaluate the impacts of the proposed project. The comments should be made in writing and addressed to

the Florida Division of Emergency Management, Bureau of Recovery and Mitigation, 2555 Shumard Oak Blvd., Tallahassee, FL 32399-2100. These are due within 30 days of this notice. The State will forward comments to applicable regulatory agencies as needed. Interested persons may submit comments, obtain more detailed information about the proposed action, or request a copy of the findings by contacting:

Eugene Henry, Hazard Mitigation Program Manager and Floodplain Administrator, Hillsborough County, Florida at (813) 307-4541 HenryE@HillsboroughCounty.ORG

or

William Twaite, Contracts Manager, Hazard Mitigation, Hillsborough County, Florida at (813) 276-8245 TwaiteW@HillsboroughCounty.org

or,

Paula Catledge, Florida Division of Emergency Management, (407) 888-3784, Paula.Catledge@em.myflorida.com

Hillsborough County Local Mitigation Strategy Working Group Meeting
 Sign-in Sheet; August 22, 2019

Name	Organization	Phone Number	email
Allison Yeh	HL MPO	813-272-5940	yeha@plhcom.org
JOE MASTANDREA	HCO/EM	813-272-5335	mastandrea@hctgov.net
Scott Murley	TTFD	813-506-6705	smurley@templeterrace.com
DEREK DUNHAM	JMS	813-868-6155	DDUNHAM@JMS.com
ENRIQUE LAURET	NFE	321-4449851	ENRIQUE@NATIONALFLOODEXPERTS.com
Ashley Hyndrick	USF	321-543-9731	marie@health.usf.edu
Audrey Cain	TECO	813-228-4445	acain@teco.org
Daniel Gessman	USF	813-974-3036	DGessman@usf.edu
Kevin Moran	HCPWS		
Bart Weiss	"		
Tray Salisbury	"		
Ashley Tharp	Wright Place	727-599-5644	Aatharp@aol.com
Chris Zambito	Atkins	813-244-1651	chris.zambito@atkinsllb.com
Simon Bollin	HC Econ Dev	813-853-1086	ballins@hctgov.net

Hillsborough County Local Mitigation Strategy Working Group Meeting
 Sign-in Sheet; August 22, 2019

Name	Organization	Phone Number	email
Jane			
Bill Twait			
Christine			
Elizabeth Ciesla	City of Temple Terrace	813-570-6565	elizabeth.ciesla@templeterrace.com
Matthew Goolsby	ASCT	813-228-0900	
Jen Fleischman	USF	813-974-0570	jfleischman@usf.edu
Shawn	College	file	file
Brian Cook			
Kyla Boeker		PW-TD	813-835-4444
IAN KEMP	TEMPLE TERRACE FIRE	8135066700	ikemp@templeterrace.com
Elizabeth Dun			

AGENDA
Local Mitigation Strategy Working Group (LMS WG)
September 17, 2019 1:30 pm

Children's Board of Hillsborough County

1002 E Palm Ave., Tampa, FL 33605

Conference call: (605) 468-8035

Pin: 191-3636

1. Welcome Elizabeth Dunn/Eugene Henry 1:30
 - a. Introductions
 - b. Membership
 - c. Approval of Minutes

2. 5 Year update for the LMS Document Eugene Henry/ Chris Zambito 1:35
 - a. Review of Pinellas LMS
 - b. Meeting calendar and attendance, fall workshops
 - c. Guidelines for meetings, participation and process
 - d. Reviews of goals and objectives
 - e. Review of missing data and format of document
 - f. Floodplain Management Plan
 - g. Status of projects (start catalog of remove/on-hold/new/completed projects)
 - h. Review of new projects

3. Presentation of USF Peril of Flood Project Brian Cook 2:20

USF update/presentation on mitigation approaches for flood

4. Grant Program Availability and Outreach Bill Twaite/ Eugene Henry 2:45
 - a. Flood mitigation assistance grant
 - b. Pre-Disaster Grant Program
 - c. Review of new projects

5. Future Meetings Eugene Henry/Chris Zambito 3:00
 - a. October
 - i. Approve maintenance process
 - ii. Working draft plan information
 - iii. Lock-in path forward (public meeting outreach, draft to LMS WG, BOCC meetings)
 - iv. Determine future LMS WG meetings depending on status of plan update
 - v. Nominations for officer for 2020
 - b. November
 - i. Approve maintenance process
 - ii. Review outreach projects for 2020
 - iii. Election of new officers

6. Next Meeting/ Other business

Eugene Henry 3:10

- a. CRS Outreach/Activity 330 Status
- b. Potential projects for this year and status of IRMA HMGP applications
- c. Flood Damage Control regulations
- d. FEMA FIRM Coastal Maps, appeal period and codes
- e. Floodplain Management Plan (any new information to be incorporated into LMS)

7. Adjourn

Elizabeth Dunn/Eugene Henry

AGENDA
Local Mitigation Strategy Working Group (LMS WG)
September 17, 2019 1:30 pm

Attendees: Christina Hummel, Gene Henry, Chris Zambito, Joe Mastandrea, Bart Weiss, Ian Kemp, Bill Twaite, Matt Goolsby, Enrique Lairet, Ashley Hydrick, Simon Bollin, Brian Cook, Elizabeth Dunn, Vinny Corazza, Andrea Roshaven, Randy Goers, Tera Vanalstrue, Cheila Planas, Tim Dudley, Steven Castonguay, Ben Allushuski, Catherine Hayes, Amy Polen,

Phone Call in: Barbara Spaulding, Cara Serra, Angela Aborizk, Allison Yeh, Becky Barta,

- | | |
|---|--|
| <p>1. <i>Welcome</i></p> <ul style="list-style-type: none">a. <i>Introductions</i>b. <i>Membership</i>c. <i>Approval of Minutes</i> | <p><i>Elizabeth Dunn/Eugene Henry 1:30</i></p> |
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Introductions were made. The minutes from the last meeting were approved. Mr Henry went over the agenda.

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| <p>2. <i>5 Year update for the LMS Document</i></p> <ul style="list-style-type: none">a. <i>Review of Pinellas LMS</i>b. <i>Meeting calendar and attendance, fall workshops</i>c. <i>Guidelines for meetings, participation and process</i>d. <i>Reviews of goals and objectives</i>e. <i>Review of missing data and format of document</i>f. <i>Floodplain Management Plan</i>g. <i>Status of projects (start catalog of remove/on-hold/new/completed projects)</i>h. <i>Review of new projects</i> | <p><i>Eugene Henry/ Chris Zambito 1:35</i></p> |
|---|--|

Mr Henry introduced the LMS update process and how all the items fit together. The fall workshops in November were mentioned. It was mentioned that final LMS document will be multijurisdictional and it will have to be approved by all jurisdictions next summer. During this process the current Project list will be reevaluated and projects no longer necessary or feasible will be moved off the active list. New projects will be added as they are planned. There was a review of the current goals and the group was asked to review the current goals and maybe add other like for resiliency. Mr Zambito went thru the ppt. He mentioned that we are about finished with the HIRA and capabilities. County is working on the approval for the fall workshops where draft sections will be presented. It was mentioned that the hazards need to be the same as in the adopted CEMP and the Emergency Management Accreditation Program (e-map) process. Consistency with these items will be reevaluated and adjusted as necessary. There was a discussion about the goal and objective and if an objective for resiliency should be added. Mr. Henry stated that the Wild fire plan will be incorporated as well this time and that most appendices will be incorporated into the main document. All other plans/appendices will also be reviewed. All current projects will be reviewed as well.

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| <p>3. <i>Presentation of USF Peril of Flood Project</i></p> <p><i>USF update/presentation on mitigation approaches for flood</i></p> | <p><i>Brian Cook 2:20</i></p> |
|--|-------------------------------|

Mr. Cook presented the ppt on vulnerability of communities.

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| <p>4. <i>Grant Program Availability and Outreach</i></p> <ul style="list-style-type: none">a. <i>Flood mitigation assistance grant</i>b. <i>Pre-Disaster Grant Program</i>c. <i>Review of new projects</i> | <p><i>Bill Twaite/ Eugene Henry 2:45</i></p> |
|--|--|

The City of Temple Terrace brought back their request for their EOC that was approved last year. The City of Tampa presented 4 projects that will be new to the list. Hyde Park Bridge, Howard Curran Advanced wastewater treatment plant stand by generator, Hillsborough River Dam Embankment stabilization, and San Carlos Pump Station Standby Rehabilitation. All 4 projects were approved. There was a discussion about the group coming up with projects that would implement more than one goal.

5. *Future Meetings*

Eugene Henry/Chris Zambito 3:00

a. October

- i. Approve maintenance process*
- ii. Working draft plan information*
- iii. Lock-in path forward (public meeting outreach, draft to LMS WG, BOCC meetings)*
- iv. Determine future LMS WG meetings depending on status of plan update*
- v. Nominations for officer for 2020*

b. November

- i. Approve maintenance process*
- ii. Review outreach projects for 2020*
- iii. Election of new officers*

Mr. Henry mentioned that we need nominations for the chair and vice chair for next year. And the next meeting would be in October.

6. Next Meeting/ Other business

Eugene Henry 3:10

- a. CRS Outreach/Activity 330 Status
- b. Potential projects for this year and status of IRMA HMGP applications
- c. Flood Damage Control regulations
- d. FEMA FIRM Coastal Maps, appeal period and codes
- e. Floodplain Management Plan (any new information to be incorporated into LMS)

7. Adjourn

Elizabeth Dunn/Eugene Henry

The meeting was adjourned at 3:32 pm

Hillsborough County Local Mitigation Strategy Working Group Meeting
 Sign-in Sheet; September 17, 2019

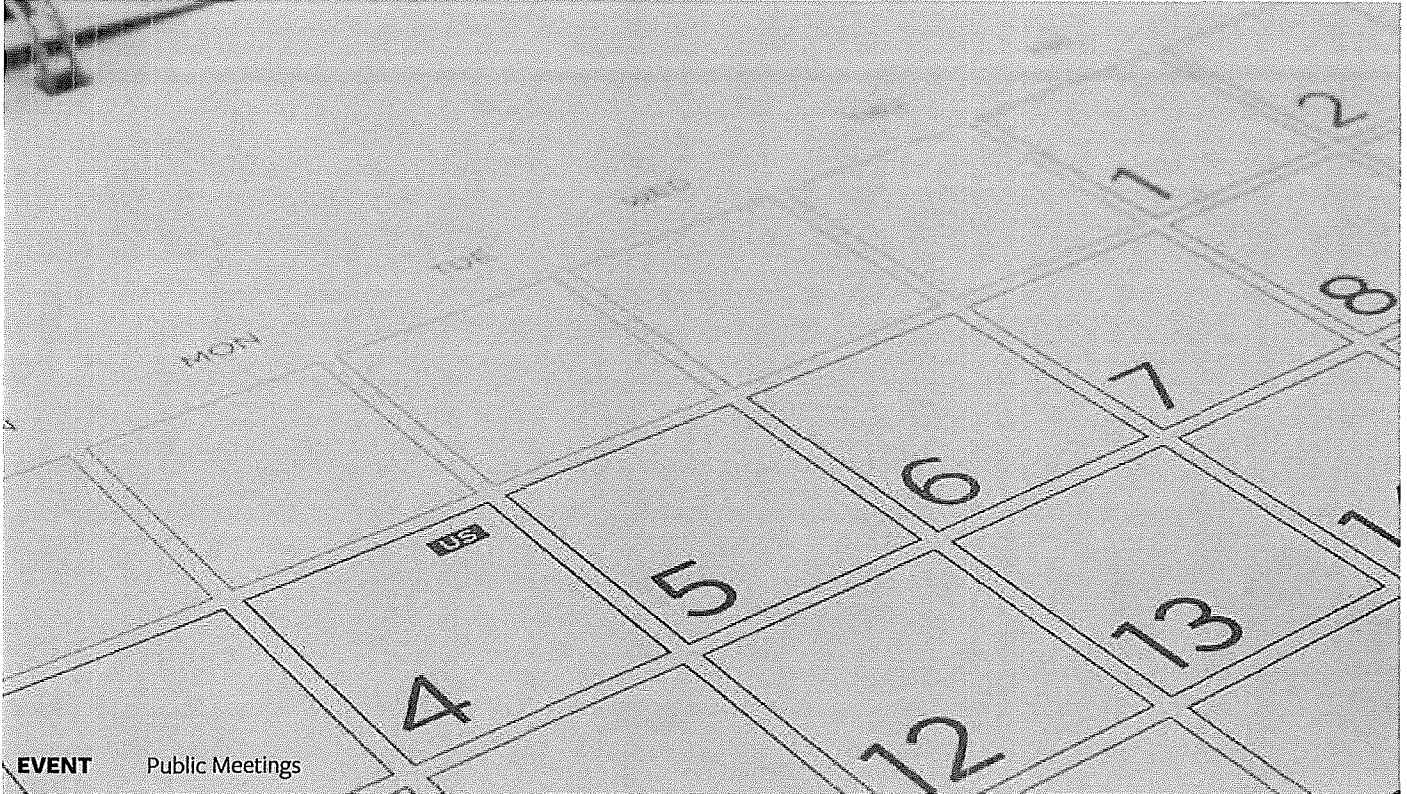
Name	Organization	Phone Number	email
Roger Henry	Hills Co.	813 3474541	Henry@Hills...
Amy Polen	USF	561-779-2878	amy.polen@mail.usf.edu
William Twante	Hills City	813 276 9245	twante@hills...
JOE MASTANDREA	HCOBEM	813-272-5335	mastandrea@hills.gov.net
VINNY CORAZZA	C. Temple Terrace	813-506-6570	vincenzo.corazza@templeterrace.com
Andrea Roshaven	Hills City	813-307-8380	rosravena@hills.gov.net
RAMON GOERS	City of Tampa	1402 North Blvd	RAMON.GOERS@TAMPAFLORIDA.GOV
MATT GOOLSBY	ASCT	813 923-226-0900	mgoolsby@asct.com
Teresa VanAlstine	Endeavors	813-476-4227	tvanalstine@endeavors.org
Heila Planas	Endeavors	813-450-9063	cplanas@endeavors.org
ENRIQUE LAIRET	NATIONAL FLOOD EXPERTS	321-444-9851	ENRIQUE@NATIONALFLOODEXPERTS.COM
Elizabeth Dunn	USFCOPH	315107935	edunn2@mail.usf.edu

Jarvis Lewis

Hillsborough County Local Mitigation Strategy Working Group Meeting
 Sign-in Sheet; September 17, 2019

Name	Organization	Phone Number	email
Christina			
Jessie			
Ashley Hudrick	USF	321-543-4431	marie105@health.usf.edu
Simon Bollin	HC Econ. Dev.	813-274-2735	ballins@hcf.gov.net
Jim Dudley	HEPC	813-272-6611	dudleyj@hillsboroughcountygov.org
STEVEN CASHAWAY	FDOT	813-299-0714	ON FILE
IAN KEMP	TEMPLE TERRACE FIRE	813 493 3600	ikemp@templeterrace.com
Ben Allushuski	COT Stormwater	813-274-3257	ben.allushuski@tampagov.net
Catherine Hayes	City of Tampa	813-274-3325	catherine.hayes@tampagov.net
Chris Zambito	Atkins	813-244-1654	chris.zambito@atkinslab.com

Brain Cook



EVENT Public Meetings

DATE September 17, 2019 1:30 PM

Local Mitigation Strategy Working Group

The LMS WG is the community-wide all-hazards committee and will conduct the following business: the Floodplain Management Plan, the Community Rating System (NFIP/CRS), and work to begin on the five year update to the Local Mitigation Strategy and Disaster assistance grants. Subcommittees

to work the update and NFIP/ CRS activities.

Alternate meeting method

If you can't attend the meeting in person, you can participate through a conference call-in.

Conference call access:

- Phone number: (605) 468-8035
- Participant code: 191-3636

Event Details

 **LOCATION**

Children's Board of Hillsborough County
1002 Palm Ave.
Tampa FL, 33605

 **DATE**

September 17, 2019 | 1:30 PM

 **CONTACT**

Christina Hummel
P (813) 307-1800

AGENDA
Local Mitigation Strategy Working Group (LMS WG)
November 5, 2019 1:30 pm

Hillsborough County Center
601 E Kennedy Tampa, FL 33605
20th floor
Conference call: (605) 468-8035
Pin: 191-3636

1. Welcome Elizabeth Dunn/Eugene Henry 1:30
 - a. Introductions
 - b. Membership - review current membership and request voluntary participation
 - c. Approval of Minutes
 - d. Elections for officers for next year

2. 5 Year update for the LMS Document Eugene Henry/ Chris Zambito 1:35
 - a. Meeting calendar and attendance, winter workshops
 - b. Guidelines for meetings, participation and process
 - c. Review and approve of goals and objectives
 - d. Review and approve analyses, missing data, format of document, hazards, and vulnerabilities
 - e. Floodplain Management Plan
 - f. Status of projects (start catalog of remove/on-hold/new/completed projects)
 - g. Critical facilities
 - h. Review and approve new projects

3. Grant Program Review Grant Applicants/ Eugene Henry 3:15
 - a. Review of current grant applications (H IRMA)
 - i. Tampa
 - ii. Temple Terrace
 - iii. Plant City
 - iv. Unincorporated HC
 - b. Update on previous grant applications application, FMA-FL-2015-011 - Hillsborough – Sonora Drive Acquisition (Bill Twaite)

4. Next Meeting/ Other business Eugene Henry 3:25
 - a. CRS Outreach/Activity 330 Status
 - b. Potential projects for this year and status of IRMA HMGP applications
 - c. Flood Damage Control regulations
 - d. FEMA FIRM Coastal Maps, appeal period and codes
 - e. Floodplain Management Plan (any new information to be incorporated into LMS)

Future Targets see table below

Timeline for Remainder of Project

October 2019	November 2019	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020
1 Tu (076)	1 Fr (018)	1 Su (035)	1 We (New Year's Day)	1 Su (02)	1 Su (01)	1 We (02)	1 Fr (022)	1 Mo (053)	1 We (063)
2 We (075)	2 Sa (015)	2 Mo (034)	2 Th (09)	2 Su (03)	2 Mo (05)	2 Th (04)	2 Tu (021)	2 Tu (054)	2 Th (064)
3 Th (074)	3 Su (014)	3 Tu (033)	3 Fr (08)	3 Mo (04)	3 Tu (06)	3 Fr (03)	3 We (020)	3 We (053)	3 Fr (063)
4 Fr (073)	4 Mo (013)	4 Tu (032)	4 Sa (07)	4 Tu (03)	4 We (05)	4 Sa (02)	4 Th (019)	4 Th (052)	4 Tu (062)
5 Sa (072)	5 Tu (012)	5 Th (031)	5 Su (06)	5 We (02)	5 Th (04)	5 Su (01)	5 Tu (018)	5 Fr (051)	5 Th (061)
6 Su (071)	6 We (011)	6 Fr (030)	6 Mo (05)	6 Th (01)	6 Fr (03)	6 Mo (02)	6 We (017)	6 Sa (050)	6 Su (060)
7 Mo (070)	7 Sa (010)	7 Tu (029)	7 Tu (04)	7 Tu (02)	7 Su (01)	7 We (01)	7 Th (016)	7 Tu (049)	7 Tu (059)
8 Tu (069)	8 Su (009)	8 We (028)	8 We (03)	8 We (01)	8 Tu (02)	8 Th (02)	8 Fr (015)	8 We (048)	8 We (058)
9 We (068)	9 Mo (008)	9 Tu (027)	9 Th (02)	9 Tu (01)	9 Mo (01)	9 Sa (01)	9 Tu (014)	9 Th (047)	9 Th (057)
10 Th (067)	10 Tu (007)	10 We (026)	10 Fr (01)	10 We (02)	10 Tu (02)	10 Su (02)	10 We (013)	10 Fr (046)	10 Fr (056)
11 Fr (066)	11 We (006)	11 Tu (025)	11 Sa (01)	11 Th (01)	11 We (01)	11 Mo (01)	11 Th (012)	11 Tu (045)	11 Tu (055)
12 Sa (065)	12 Mo (005)	12 We (024)	12 Su (01)	12 We (02)	12 Tu (02)	12 We (02)	12 Fr (011)	12 We (044)	12 Fr (054)
13 Su (064)	13 Tu (004)	13 Th (023)	13 Mo (01)	13 Th (01)	13 We (01)	13 Tu (01)	13 We (010)	13 Th (043)	13 Sa (053)
14 Mo (063)	14 We (003)	14 Fr (022)	14 Tu (01)	14 Tu (02)	14 Tu (02)	14 We (02)	14 Th (009)	14 Tu (042)	14 Tu (052)
15 Tu (062)	15 Sa (002)	15 Su (021)	15 We (02)	15 We (01)	15 We (01)	15 Mo (01)	15 Tu (008)	15 We (041)	15 We (051)
16 We (061)	16 Mo (001)	16 Tu (020)	16 Th (01)	16 Th (01)	16 Tu (01)	16 Sa (01)	16 We (007)	16 Th (040)	16 Th (050)
17 Th (060)	17 Tu (000)	17 We (019)	17 Fr (02)	17 Fr (02)	17 Tu (02)	17 Fr (02)	17 Th (006)	17 We (039)	17 Fr (049)
18 Fr (059)	18 We (000)	18 Th (018)	18 Sa (01)	18 Sa (01)	18 We (01)	18 Tu (01)	18 Th (005)	18 Tu (038)	18 Tu (048)
19 Sa (058)	19 Mo (000)	19 Fr (017)	19 Su (02)	19 Su (02)	19 Tu (02)	19 We (02)	19 Tu (004)	19 We (037)	19 We (047)
20 Su (057)	20 Tu (000)	20 Tu (016)	20 Mo (03)	20 Mo (03)	20 We (03)	20 Th (03)	20 We (003)	20 Th (036)	20 Th (046)
21 Mo (056)	21 We (000)	21 We (015)	21 Tu (04)	21 Tu (04)	21 Tu (04)	21 We (04)	21 Tu (002)	21 We (035)	21 We (045)
22 Tu (055)	22 Sa (000)	22 Th (014)	22 We (05)	22 We (05)	22 We (05)	22 Tu (05)	22 We (001)	22 Th (034)	22 Th (044)
23 We (054)	23 Mo (000)	23 Fr (013)	23 Th (06)	23 Th (06)	23 Tu (06)	23 We (06)	23 Tu (000)	23 We (033)	23 We (043)
24 Th (053)	24 Tu (000)	24 Su (012)	24 We (07)	24 We (07)	24 We (07)	24 Th (07)	24 We (000)	24 Th (032)	24 Th (042)
25 Fr (052)	25 We (000)	25 Tu (011)	25 Sa (08)	25 Sa (08)	25 Tu (08)	25 We (08)	25 Tu (000)	25 We (031)	25 We (041)
26 Sa (051)	26 Mo (000)	26 We (010)	26 Su (09)	26 Su (09)	26 We (09)	26 Th (09)	26 We (000)	26 Th (030)	26 Th (040)
27 Su (050)	27 Tu (000)	27 Th (009)	27 Mo (10)	27 Mo (10)	27 Tu (10)	27 We (10)	27 Tu (000)	27 We (029)	27 We (039)
28 Mo (049)	28 We (000)	28 Fr (008)	28 Tu (11)	28 Tu (11)	28 We (11)	28 Th (11)	28 We (000)	28 Th (028)	28 Th (038)
29 Tu (048)	29 Mo (000)	29 Su (007)	29 We (12)	29 We (12)	29 Tu (12)	29 We (12)	29 Tu (000)	29 We (027)	29 We (037)
30 We (047)	30 Tu (000)	30 Mo (006)	30 Th (00)	30 Th (00)	30 We (00)	30 Th (00)	30 We (000)	30 Th (026)	30 Th (036)
31 Th (046)	31 We (000)	31 Tu (005)	31 Fr (01)	31 Fr (01)	31 Tu (01)	31 We (01)	31 Tu (000)	31 We (025)	31 Fr (035)

- a. December
 - i. Review outreach projects for 2020
- b. January
 - i. Approve maintenance process
- c. February
 - i. Approve draft LMS Doc to be sent to State

6. Adjourn

Elizabeth Dunn/Eugene Henry

Public Notice

Joint Federal, State, Local, Public Notice October 22, 2019 – the Hillsborough County Board of County Commissioners submitted an application, FMA-FL-2015-011 - Hillsborough - Sonora Drive Acquisition, to acquire residential property in Gibsonton. The application for Federal grant funding was submitted to the Federal Emergency Management Agency through the Florida Division of Emergency Management. Final notice is hereby given of the Federal Emergency Management Agency's (FEMA) consideration to provide funding in the form of a Flood Mitigation Assistance Program Grant.

Under the National Environmental Policy Act (NEPA), federal actions must be reviewed and evaluated for feasible alternatives and for social, economic, historic, environmental, legal, and safety considerations. Under Executive Order (EO) 11988 and EO 11990 FEMA is required to consider alternatives to and to provide public notice of any proposed actions in or affecting floodplains or wetlands. EO 12898 also requires FEMA to provide the opportunity for public participation in the planning process and to consider potential impacts to minority or low-income populations.

Funding for the proposed project will be conditional upon compliance with all applicable federal, tribal, state and local laws, regulations, floodplain standards, permit requirements and conditions.

Location of Proposed Work: The area affected by this project consists of homes located along Sonora Drive, Gibsonton, Florida.

NOTES
Local Mitigation Strategy Working Group (LMS WG)
November 5, 2019 1:30 pm

At

Attendees: Christina Hummel, Gene Henry, Cara Serra, Matt Goolsby, Brian Cook, Cheila Planas, Steven Castonguay, Ben Allushuski, Manny Perotin, Gary Lisiewsky, Tom Aderhold, Derek Doughty, Colleen Marshall,

Phone Call in: Joe Mastandrea, Elizabeth Dunn, Randy Goers, Tim Dudley, Holly Wade

1. *Welcome* *Elizabeth Dunn/Eugene Henry* 1:30
- a. *Introductions*
 - b. *Membership - review current membership and request voluntary participation*
 - c. *Approval of Minutes*
 - d. *Elections for officers for next year*

Introductions were made, memberships were reviewed and participants were asked to remain for next year. The minutes from the last meeting were approved. Elections for the new officers were held. Ms. Dunn was reelected for Chair and Mr. Castonguay was elected for Vice Chair.

2. *5 Year update for the LMS Document* *Eugene Henry/ Chris Zambito* 1:35
- a. *Meeting calendar and attendance, winter workshops*
 - b. *Guidelines for meetings, participation and process*
 - c. *Review and approve of goals and objectives*
 - d. *Review and approve analyses, missing data, format of document, hazards, and vulnerabilities*
 - e. *Floodplain Management Plan*
 - f. *Status of projects (start catalog of remove/on-hold/new/completed projects)*
 - g. *Critical facilities*
 - h. *Review and approve new projects*

Mr Henry went thru the ppt presentation. He went over the Calendar and remaining meetings to finish the Draft LMS document. Next meeting will be in Dec plus at least one meeting each in Jan and Feb of 2020 to finalized the draft LMS document before sending it to the State. Public outreach was discussed and the county will try to use a new platform online so more people can be involved. No public meeting are currently planned. Document has to be adopted in July of 2020. Mr Henry mentioned the CRS visit that is scheduled for November 13 along with the 510 report that was approved by the BOCC at their last meeting. There was a discussion about higher standards especially for critical facilities and them being built to either 3 ft above BFE or to 500yr flood event.

There was a discussion about all the goals and objectives and how to better combine them and avoid repetition when combining the Flood management plan piece with the LMS. Discussion about the governance followed and the review of other governances was suggested. The project list is being revamped and older projects that are no longer viable will be moved to the dormant file. The future projects should have all current projects on it that are feasible and likely be accomplished in the near future, once funding may become available. Also projects should be more equitable. There was a discussion about looking at higher standards that would mitigate before a storm even happens and strategies to mitigate future losses. The presented Project evaluation criteria were approved.

3. *Grant Program Review* *Grant Applicants/ Eugene Henry* 3:15
- a. *Review of current grant applications (H IRMA)*
 - i. *Tampa*
 - ii. *Temple Terrace*
 - iii. *Plant City*
 - iv. *Unincorporated HC*

b. Update on previous grant applications application, FMA-FL-2015-011 - Hillsborough – Sonora Drive Acquisition (Bill Twaite)

It was mentioned the City of Tampa has been approved for 5 projects from the Irma list. No new projects were presented.

4. Next Meeting/ Other business

Eugene Henry 3:25

- a. CRS Outreach/Activity 330 Status
- b. Potential projects for this year and status of IRMA HMGP applications
- c. Flood Damage Control regulations
- d. FEMA FIRM Coastal Maps, appeal period and codes
- e. Floodplain Management Plan (any new information to be incorporated into LMS)

Mr. Henry mentioned that the appeals period had started and will be open until January 23, 2020. No outreach had been planned yet. Future meetings and timetable are listed below.

5. Future Meetings

Eugene Henry/Chris Zambito 3:35

Future Targets see table below

Timeline for Remainder of Project

October 2019	November 2019	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020
1 Tu (27)	1 Su (01)	1 Su (01)	1 Su (01)	1 Su (01)	1 Su (01)	1 Su (01)	1 Su (01)	1 Su (01)	1 Su (01)
2 We (28)	2 Mo (02)	2 Mo (02)	2 Tu (02)	2 Su (02)	2 Mo (02)	2 Tu (02)	2 We (02)	2 Th (02)	2 Fr (02)
3 Th (29)	3 Tu (03)	3 Tu (03)	3 We (03)	3 Mo (03)	3 Tu (03)	3 We (03)	3 Th (03)	3 Fr (03)	3 Sa (03)
4 Fr (30)	4 We (04)	4 We (04)	4 Th (04)	4 Tu (04)	4 We (04)	4 Th (04)	4 Fr (04)	4 Sa (04)	4 Su (04)
5 Sa (31)	5 Th (05)	5 Th (05)	5 Fr (05)	5 We (05)	5 Th (05)	5 Fr (05)	5 Sa (05)	5 Su (05)	5 Mo (06)
6 Su (01)	6 We (06)	6 We (06)	6 Sa (06)	6 Tu (06)	6 We (06)	6 Th (06)	6 Fr (06)	6 Sa (06)	6 Su (06)
7 Mo (02)	7 Th (07)	7 Th (07)	7 Su (07)	7 We (07)	7 Th (07)	7 Fr (07)	7 Sa (07)	7 Su (07)	7 Mo (08)
8 Tu (03)	8 Fr (08)	8 Fr (08)	8 Mo (08)	8 Tu (08)	8 We (08)	8 Th (08)	8 Fr (08)	8 Sa (08)	8 Su (08)
9 We (04)	9 Sa (09)	9 Sa (09)	9 Tu (09)	9 We (09)	9 Th (09)	9 Fr (09)	9 Sa (09)	9 Su (09)	9 Mo (10)
10 Th (05)	10 Su (10)	10 Su (10)	10 We (10)	10 Tu (10)	10 We (10)	10 Th (10)	10 Fr (10)	10 Sa (10)	10 Su (10)
11 Fr (06)	11 Mo (11)	11 Mo (11)	11 Th (11)	11 We (11)	11 Th (11)	11 Fr (11)	11 Sa (11)	11 Su (11)	11 Mo (12)
12 Sa (07)	12 Tu (12)	12 Tu (12)	12 Fr (12)	12 We (12)	12 Th (12)	12 Fr (12)	12 Sa (12)	12 Su (12)	12 Mo (13)
13 Su (08)	13 We (13)	13 We (13)	13 Sa (13)	13 Tu (13)	13 We (13)	13 Th (13)	13 Fr (13)	13 Sa (13)	13 Su (13)
14 Mo (09)	14 Th (14)	14 Th (14)	14 Su (14)	14 We (14)	14 Th (14)	14 Fr (14)	14 Sa (14)	14 Su (14)	14 Mo (15)
15 Tu (10)	15 Fr (15)	15 Fr (15)	15 Mo (15)	15 Tu (15)	15 We (15)	15 Th (15)	15 Fr (15)	15 Sa (15)	15 Su (15)
16 We (11)	16 Sa (16)	16 Sa (16)	16 Tu (16)	16 We (16)	16 Th (16)	16 Fr (16)	16 Sa (16)	16 Su (16)	16 Mo (16)
17 Th (12)	17 Su (17)	17 Su (17)	17 We (17)	17 Tu (17)	17 We (17)	17 Th (17)	17 Fr (17)	17 Sa (17)	17 Su (17)
18 Fr (13)	18 Mo (18)	18 Mo (18)	18 Th (18)	18 We (18)	18 Th (18)	18 Fr (18)	18 Sa (18)	18 Su (18)	18 Mo (19)
19 Sa (14)	19 Tu (19)	19 Tu (19)	19 Fr (19)	19 We (19)	19 Th (19)	19 Fr (19)	19 Sa (19)	19 Su (19)	19 Mo (20)
20 Su (15)	20 We (20)	20 We (20)	20 Sa (20)	20 Tu (20)	20 We (20)	20 Th (20)	20 Fr (20)	20 Sa (20)	20 Su (20)
21 Mo (16)	21 Th (21)	21 Th (21)	21 Su (21)	21 We (21)	21 Th (21)	21 Fr (21)	21 Sa (21)	21 Su (21)	21 Mo (22)
22 Tu (17)	22 Fr (22)	22 Fr (22)	22 Mo (22)	22 Tu (22)	22 We (22)	22 Th (22)	22 Fr (22)	22 Sa (22)	22 Su (22)
23 We (18)	23 Sa (23)	23 Sa (23)	23 Tu (23)	23 We (23)	23 Th (23)	23 Fr (23)	23 Sa (23)	23 Su (23)	23 Mo (24)
24 Th (19)	24 Su (24)	24 Su (24)	24 We (24)	24 Tu (24)	24 We (24)	24 Th (24)	24 Fr (24)	24 Sa (24)	24 Su (24)
25 Fr (20)	25 Mo (25)	25 Mo (25)	25 Th (25)	25 We (25)	25 Th (25)	25 Fr (25)	25 Sa (25)	25 Su (25)	25 Mo (26)
26 Sa (21)	26 Tu (26)	26 Tu (26)	26 Fr (26)	26 We (26)	26 Th (26)	26 Fr (26)	26 Sa (26)	26 Su (26)	26 Mo (27)
27 Su (22)	27 We (27)	27 We (27)	27 Sa (27)	27 Tu (27)	27 We (27)	27 Th (27)	27 Fr (27)	27 Sa (27)	27 Su (27)
28 Mo (23)	28 Th (28)	28 Th (28)	28 Su (28)	28 We (28)	28 Th (28)	28 Fr (28)	28 Sa (28)	28 Su (28)	28 Mo (29)
29 Tu (24)	29 Fr (29)	29 Fr (29)	29 Mo (29)	29 Tu (29)	29 We (29)	29 Th (29)	29 Fr (29)	29 Sa (29)	29 Su (29)
30 We (25)	30 Sa (30)	30 Sa (30)	30 Tu (30)	30 We (30)	30 Th (30)	30 Fr (30)	30 Sa (30)	30 Su (30)	30 Mo (31)
31 Th (26)	31 Su (31)	31 Su (31)	31 We (31)	31 Tu (31)	31 We (31)	31 Th (31)	31 Fr (31)	31 Sa (31)	31 Su (31)

- a. December
 - i. Review outreach projects for 2020
- b. January
 - i. Approve maintenance process
- c. February
 - i. Approve draft LMS Doc to be sent to State

6. Adjourn

Elizabeth Dunn/Eugene Henry

The meeting adjourned at 3.35 pm

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Location of Proposed Work: The area affected by this project consists of homes located along Sonora Drive, Gibsonton, Florida.



DATE November 5, 2019 1:30 PM

Local Mitigation Strategy Working Group

The LMS WG is the community-wide all-hazards committee and will conduct the following business: the Floodplain Management Plan, the Community Rating System (NFIP/CRS), and work to begin on the five year update to the Local Mitigation Strategy and Disaster assistance grants. Subcommittees

<https://www.hillsboroughcounty.org/en/calendar/05-publicmeetings/2019/local-mitigation/20191105-working-group>

to work the update and NFIP/ CRS activities.

During the meeting, the project list will be discussed and new projects could be added to the current list after a vote.

The goals and objectives will be reviewed. New officers for 2020 will be elected.

Alternate meeting method

If you can't attend the meeting in person, you can participate through a conference call-in.

Conference call access:

- Phone number: (605) 468-8035
- Participant code: 191-3636

Event Details

LOCATION

County Center
601 E. Kennedy Blvd.
20th Floor Conf. Rm.
Tampa FL, 33602

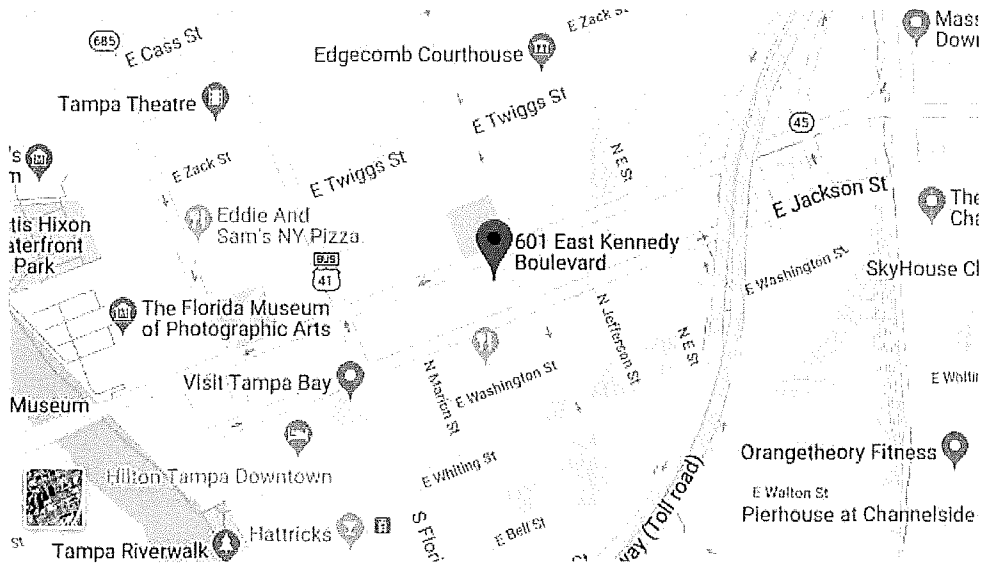
DATE

November 5, 2019 | 1:30 PM

CONTACT

Christina Hummel
P (813) 307-1800

SONORA DRIVE ACQUISITION PROJECT



Hillsborough County Local Mitigation Strategy Working Group Meeting
 Sign-in Sheet; November 5, 2019

Name	Organization	Phone Number	email
STEVEN CRISOMQUAY	FDOI	813-299-0714	on file
Manny Perotin		813-786-2262	manny.perotin@gmail.com
Garap Lisiewski	TPD/UMSI	813-276-3541	Garap.Lisiewski@tampa.gov
TOM ADERHOLD	CCC of HC	813-968-6866	TOM@TOMAdorhold.net
Chela Planas	Endcavors	813-450-9063	cplanas@endcavors.org
Ben Allushuski	COT Stormwater	813-274-3257	ben.allushuski@tampagov.net
DEREK DOUGLASS	SMT	813-868-6185	D.Douglass@tampagov.net
Colleen Marshall	HC Dev. Services	813-272-5828	marshallc@hillsboroughcounty.org
Matthew Godsbey	Applied Sciences	813-228-0900	m.godsby@appliedsci.com
Lara Ferr	TBRPC		
Brian Cook			

* Christina
 * Gene



DATE December 10, 2019 1:30 PM

Local Mitigation Strategy Working Group

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to work the update and NFIP/ CRS activities.

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The goals and objectives will be reviewed as well the governance.

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- Participant code: 191-3636

Event Details

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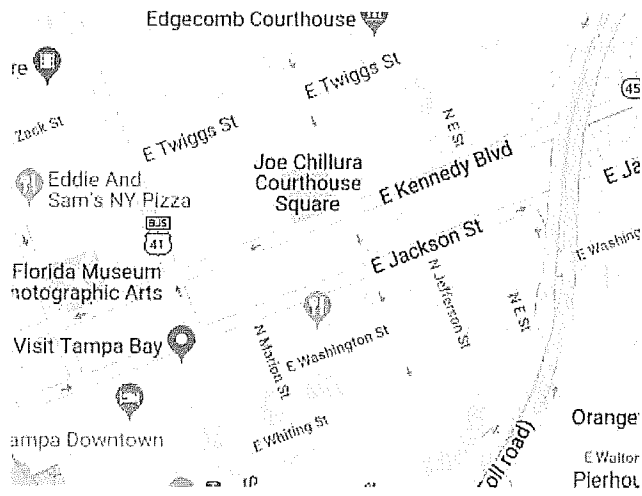
County Center
601 E. Kennedy Blvd.
23rd Floor Rm. 2308
Tampa FL, 33602

DATE

December 10, 2019 | 1:30 PM

CONTACT

Christina Hummel
P (813) 307-1800





Hillsborough County Florida

Office of Emergency
Management

QUARTERLY EMERGENCY ACTIONS GROUP THURSDAY MARCH 28, 2019

AGENDA

<u>Time</u>	<u>Activity</u>	<u>Facilitator</u>
09:00 - 09:05	Welcome	Mike
09:05 - 09:15	Hazard Mitigation	Gene
	<i>-Plan Update</i>	
	<i>-Floodplain Mgt.</i>	
	<i>-PDRP</i>	
	<i>-Citizen Corp Council</i>	
	<i>-Codes/Grants</i>	
09:15 - 09:25	New Ops Group Meeting Format	Mike
09:25 - 09:30	Pre-Season Checklist	Mike
09:30 - 09:35	Upcoming Training/Exercises	Mike
09:35 - 09:40	EER Update	Angie
09:40 - 09:45	CEMP Workshop (ESF Lead Changes, WebEOC)	Paul
09:45 - 09:50	ESF 6 Update	Audrey
09:50 - 09:55	Everbridge Groups	Mike/Robert
09:55 - 10:00	Re-Org and New Hires	Mike



Hillsborough County Florida

Office of Emergency Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting March 28, 2019 0900-1100

Name	ESF	Organization	Phone #	Email
Genia Alvarez	ESF14	CSSes	813 276 2674	alvarezg@gmail.com
Ikene Miranda	ESF14	Cust Svc Support	813.744.7638	mirandi@HCFgov.net
Scott Murley		TTFD	813 506 6705	smurley@tempoterrace.com
MARK MARTINEZ	7	HC MANAGEMENT & BUDGET	813-272-6215	MARTINEZMP@HCFGOV.NET
PAUL JOHNSTON		Co. ATTY'S OFF.	813-272-5670	johnstonp@hillsborough.gov
Shawn Morrey	16	HCSO	813 247 8621	SMorrey@HCSO-TAMPA.FL.US
Jennifer Hall	ESF14	CS & S	813-276-8368	hallj@hcfgov.net
Liana Lopez	ESF14	Chief Communications Administrator	813-272-1141	LopezLia@hcfgov.net
Angelo Garcia	ESF6	AFFORDABLE HOUSING	813-246-3163	GARCIAAZ@hcfgov.net
Robert Parriss	5	HC OEM	813 734-5505	parriss@hcfgov.net
Wendy Anastasion	12	Tampa Electric Co	813-228-1685	wfanastasion@tampaelectric.com
Jane A. Rose		Hillsborough County Attorney	813-307-3193	roseje@hillsboroughcounty.org



Hillsborough County Florida

Office of Emergency
Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting March 28, 2019 0900-1100

Name	ESF	Organization	Phone #	Email
Mike Solala	14	Customer Service & Support	813-276 8347	solalcm@hcf.gov.net
Joe MASTANDREA	5, 13	HCOEM	813-272-5335	mastandrea@hcf.gov.net
Andrey Zieder	10	Hills County Soc Svcs	813-272-7416	ziidera@hcf.gov.net
ROBIN CATON	OPS	H.C. SAFETY & SPEC. ENF	813-274-6664	rcaton@hcf.gov.net
DAVID PACOFF		HEPR- OEN	ONS FULL	
Simon Bollin	18	HC Econ Dev	276-2735	bolli@s@hcf.gov.net
Pedro Gonzalez	2	HC 110	65351	
Vince Montes	2	HC 110	38587	
Shahel Riveron	3	HC PW	272-5641	Riverons@hillsboroughcounty.org
Ted Williams	5	HC OEN	734-5523	Williamst@HCFGov.net
Israel Segarra	7	Procurement	272-3636	segarraia@HCFGov.net
CASSANDRA Blaylock	6	Health Care Services	455-1752	blaylockc@HCFGov.net



Hillsborough County Florida

Office of Emergency Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting March 28, 2019 0900-1100

@ hillsboroughcounty.org

Name	ESF	Organization	Phone #	Email
* William (Bill) Twate	3/5	Hills Cty Public Works Haz Mit	276 8245	twate.w@hills...
* Gary Downs		Transcare	813-460-3683	Gdowns@crisiscenter.com
Bill Miller	2	ARES / RAES		Rdowr@NEARESRAES.org
Key Dreyx	2	ARES / RAES	757-635-295	BMiller@NEARESRAES.org
Juan Maldonado		HART	850-553-1075	maldonadoj@gohar.org
Jen Fleischman		USF	813-974-0870	jfleischman@usf.edu
Scott Clark	1	Sunshine Line	813-276-8140	clarksd@hcf.gov.net
Steven Castonguay	8	FDOH	813-299-0714	on file
Jon-Paul Lavandera	19	Code Enf	813 373 9953	lavanderaj@hcf.gov.net
Bon Spiller	19	Code Enf	813 307 1755	spiller@ " " "
OTIS LOR HOLLAR	3	PUBLIC WORKS, TRANS MAINT DIV	813-786-3023	hollaro@hillsboroughcounty.org
Valerie Williams		Fleet	744-5580	williamsv@hills...
MJ Maruca	17	Animal Control	813-997-9138	marucam@hcf.gov.net
Sarah Ellis		HC Geospatial Services	813-307-4783	Elliss@hills...
Julie Watkins		Honors Servis	276-2677	watkinsj@hillsborough...
Debbie Dormer-Schneider	46	Human Sucs	301-7382	Schneiderd@hillsboroughcounty.org

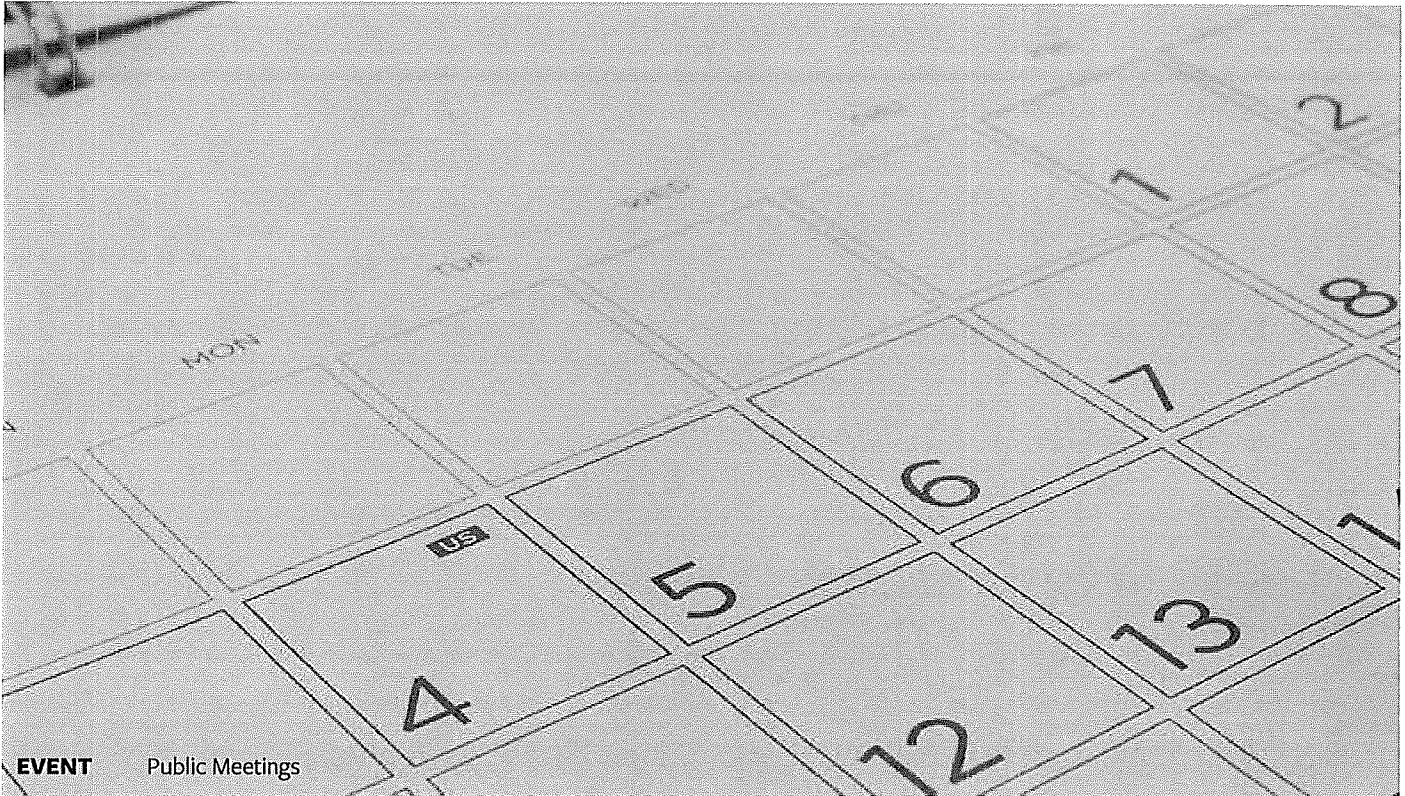


Hillsborough County Florida

Office of Emergency Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting March 28, 2019 0900-1100

Name	ESF	Organization	Phone #	Email
Sylvia Wint	6	Social Services	813 274-6719	wint@s@HcFLgov.net
Kelly Engel	6/11	" "	294 9293	ENGEL@ " "
DAVID KELSEY	1	HART	813-309-1623	KELSEYD@GOHART.ORG
Eric Lindstrom	18	EDD	813-276-2749	LINDSTROMER@HcFLGov.NET
Amanda Shaw	16	HCSO	813-247-8235	ashaw@hcsa.tampa.fl.us
ALAN WATSON	3/10	ERC	813-627-2600	watsona@erhc.org
Bryan Eckhart	11	Aging	813-853-1000	Eckhart@HcFLGov.net
Heather Curry	6	HCA5		curryh@HcFLGov.NET
Deborah Sappel	1	HART	813-384-6402	sapperd@gohart.org
Annette Spina	14	HE	301-7239	SPINAA@ " "
Pat Alessandrini		HCPA	276-8931	alessandrini@hepafl.org
Randy KUNDSTRA	3	Real Estate Facilities	576-8782	KUNDSTRA@ " "
Chris Cochran		HART	384 6553	COCHRAN C@GOHART.ORG
Nelson Garcia	6	H.C. Public Schools	927-3364	nelson.garcia@sdhc.k12.fl.us
Michelle Van Dyke	H	Hillsborough County CDM	813-272-5315	vandykem@hcfgov.net



EVENT Public Meetings

DATE March 28, 2019 9:00 AM - 11:00 AM

Operations Group Meeting

The Operations Group/Training & Exercise Committee, and Local Mitigation Strategy Steering Committee meet quarterly.

Meetings take place in March, June, September and December.

<https://www.hillsboroughcounty.org/en/calendar/05-publicmeetings/2019/operations-group/20190328-meeting>

Event Details

LOCATION

PSOC
9450 E. Columbus Dr.
Rm. 201 (EOC)
Tampa FL, 33619

DATE

March 28, 2019 | 9:00 AM

CONTACT

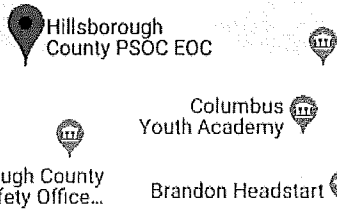
Michael Ryan
Deputy Emergency Manager
P (813) 272-6628

Hillsborough County PSOC EOC

9450 E Columbus Dr, Tampa, FL
33619

[Directions](#)

[View larger map](#)



8/28/2019

Hillsborough County - Operations Group/Training & Exercise Committee, and Local Mitigation Strategy Steering Committee Meeting



Columbus Dr

Google



Report a map error



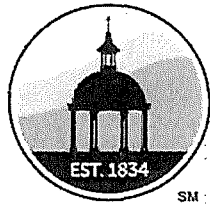
Hillsborough County Florida

Office of Emergency
Management

QUARTERLY EMERGENCY ACTIONS GROUP MEETING THURSDAY JUNE 27, 2019

AGENDA

<u>Time</u>	<u>Activity</u>	<u>Facilitator</u>
09:00 - 09:05	Welcome	Mike
09:05 - 09:15	Hazard Mitigation <i>-Plan Update</i> <i>-Floodplain Mgt.</i> <i>-PDRP</i> <i>-Citizen Corp Council</i> <i>-Codes/Grants</i>	Gene
09:15 - 09:20	New OEM Staff	Mike
09:20 - 09:25	AARs/CAPs	Mike
09:25 - 09:40	Hurricane Exercise/Branches	Mike
09:40 - 09:45	Upcoming Training/Exercises/ICS	Mike
09:45 - 09:50	Evacuation Workgroup	Angela B
09:50 - 09:55	Open Discussion	Mike
09:55 - 10:00	Closing	Mike



Hillsborough County Florida

Office of Emergency Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting June 27, 2019 0900-1100

Name	ESF	Organization	Phone #	Email
Mark Martin	3	HC PWD	307-7739	or File
MARK MARTINEZ	7	HC MUNICIPALITY + BUDGET	272-6215	MARTINUSM@HCFLOFLA.GOV
Shawn Morrey	16	HCSO	247-8621	SMorrey@HCSO.TAMPA.FL
ANGELA BAIRD	8	FL DEPT OF HEALTH	813-344-7567	angela.baird@flhealth.gov
Steven Castoranza	8	FDOT	813-289-0714	on File
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Angie Moritz	3	FDOT	813-615-8630	angela.abovick@doh.state.fl.us
Karla Munoz	11	Aging Services	813-274-6962	MunozK@hcf.gov.net
Angelo Garcia	6	AFFORDABLE HOUSING	246-3163	garciaab@hcf.gov.net
Nelson Garcia	6	School District	813-977-3364	nelson.garcia@SDHC.K12.FL
Jamie S. Warrington	1	School District TRANSP.	813-982-5585	jamie.warrington@sdhc.k12.fl.us
Tom Jordan	8	USAA	813-615-5275	THOMAS.JORDAN@USAA.COM *
Marcus Martin		HCFE-OEM	813-7345502	marcus.martin @hcf.gov.net



Hillsborough County Florida

Office of Emergency Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting June 27, 2019 0900-1100

Name	ESF	Organization	Phone #	Email
JOEL SERRANO	7	FLDOT	744-5580	SerranoJ@HCF.gov
John McGehee	7	FLDOT	744-5580	mcgehejs
Leighton Reid	13	MACDL EM	828-4321	Leighton.Reid@USAF.mil
Pedro Gonzalez	2	County I/O	65351	
JOE MASTANDREA	5	HCOEM	272-5335	mastandrea.j@hcf.gov
* Val Thomopalos	8	USAA	813-833-7518	Val.Thomopalos@USAA.com
Daniel Walker	2	Frontier	813 813-220-6389	
Robert Parris	5	HCOEM	813 272 6638	parrisr@hcf.gov
Jennifer Hall	14	Call Center	813 276 8368	hallj1@hcf.gov
DAVID PACOFF		HCF-OEM	ON FILE	

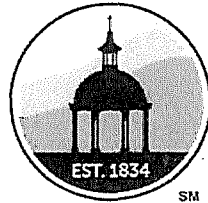


Hillsborough County Florida

Office of Emergency Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting June 27, 2019 0900-1100

Name	ESF	Organization	Phone #	Email
* RAYMOND GREEN		HILLS COUNTY PUBLIC SCHOOLS	813-758-5628	RAYMOND.GREEN@SDHC.K12.FL.US
Mike Salak	14	Custom Service & Support	813-276-8343	Salak M @ HC FL GOV. NET
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Irene Miranda	14	Custom Svc + Support		MIRANDI@HCFGOV.NET
Suzanne Healy	3519	HC E/OP	813 3074541	Healy@
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Rob Marlone		USF	315-205-5360	rmarlone1@usf.edu
Paul Johnston		Co. Atty's Ofc.	272-5670	johnstonp@hills ---
Inaki Rezola	ops-	O.E.M.		rezola.i@hillsboroughcounty.org
* Alec Burnett	2	IJO	813-272-9573	burnetta@hillsboroughcounty.org
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Lisa Reddy	8	DOH		
Sylvia Wint	6	HC SS	813 274-6719	wint@s@ HC FL GOV. NET



Hillsborough County Florida

Office of Emergency
Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting June 27, 2019 0900-1100

Name	ESF	Organization	Phone #	Email
Gema Alvarez	14	Cust Svc E Support	813 2762676	alvarez@hcf.gov.net
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Steven Crowe	16	HCSO	813 247 8418	SCROWE@hcs0.tampa.fl.us
Bryan King	3	PUD/PW	813 635 8455	Kingbr@hcf.gov.net
William Ramos	1	Sunshine Line	813-276-8138	ramosw@hcf.gov.net
ROBIN CATON	OPS	SAFETY & SPEC. ENFORCEMENT	813-274-6664	caton@hcf.gov.net
Michelle Van Dyke	14	HC Communications	813-272-5305	vandykem@hcf.gov.net
Ciro Dominguez	16	HCSO	813-847-8831	cdomick@HCSO.Tampa, FL us
Dudley, Timothy		OEM		DudleyT@hillsboroughcounty.org
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Simon Hollin	18	HC Economic Develop	813-276-2735	hollins@hcf.gov.net
Jane Watkins	6	Homeless Servis	813.276.2677	watkinsj@hcf.gov.net
MARK DUBZWA		PORT TAMPA BAY	813 465-0774	MDUBZWA@TAMPABAY.CO



EVENT Public Meetings

DATE June 27, 2019 9:00 AM - 11:00 AM

Operations Group Meeting

The Operations Group/Training & Exercise Committee, and Local Mitigation Strategy Steering Committee meet quarterly.

Meetings take place in March, June, September and December.

<https://www.hillsboroughcounty.org/en/calendar/05-publicmeetings/2019/operations-group/20190627-meeting>

Event Details

LOCATION

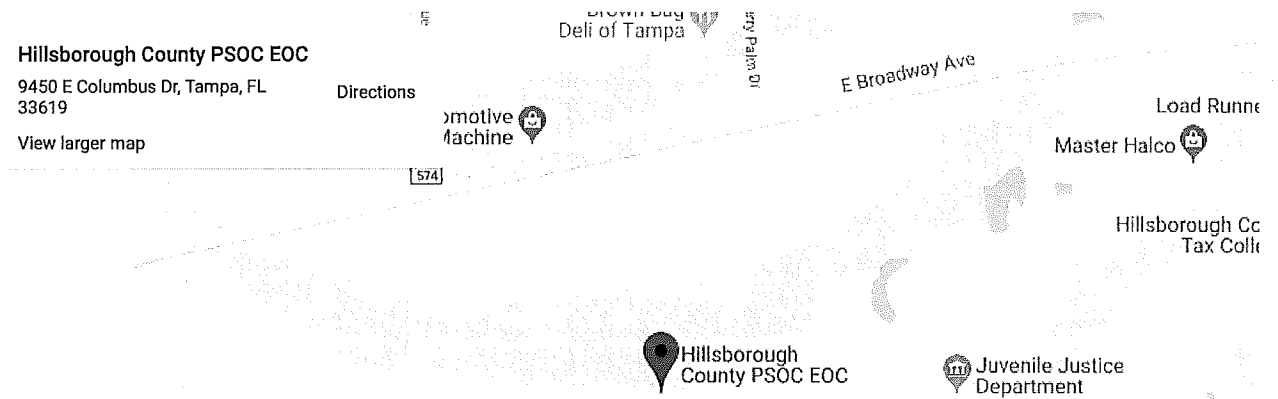
PSOC
9450 E. Columbus Dr.
Rm. 201 (EOC)
Tampa FL, 33619

DATE

June 27, 2019 | 9:00 AM

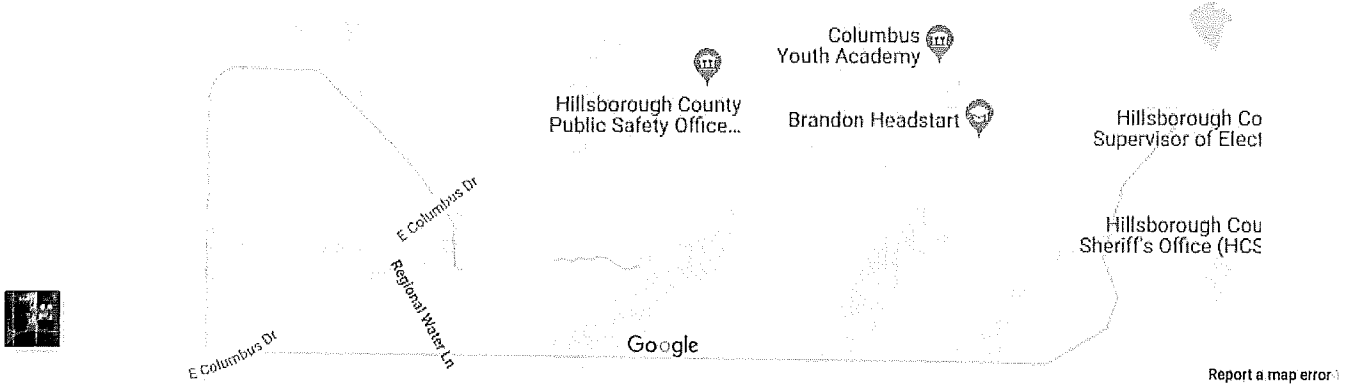
CONTACT

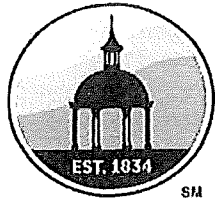
Michael Ryan
Deputy Emergency Manager
P (813) 272-6628



8/28/2019

Hillsborough County - Operations Group/Training & Exercise Committee, and Local Mitigation Strategy Steering Committee Meeting





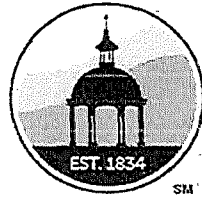
Hillsborough County Florida

Office of Emergency
Management

QUARTERLY EMERGENCY ACTIONS GROUP MEETING THURSDAY SEPTEMBER 26, 2019

AGENDA

<u>Time</u>	<u>Activity</u>	<u>Facilitator</u>
09:00 - 09:05	Hazard Mitigation <i>-Plan Update</i> <i>-Floodplain Mgt.</i> <i>-PDRP</i> <i>-Citizen Corp Council</i> <i>-Codes/Grants</i>	Gene
09:05 - 09:35	Community Vulnerability Study	USF
09:35 - 09:45	AARs/Training/Exercises	Dave
09:45 - 09:55	Dorian Response	Mike
09:55 - 10:00	Open Discussion	Mike
10:00	Closing	Mike



Hillsborough County Florida

Office of Emergency
Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting September 26, 2019 0900-1000

Name	ESF	Organization	Phone #	Email
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Julius Grice	16	HCSO		Jgrice@hcs0.tampafl.us
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Gregory Gogichaishvili	11	Aging Services	813-272-6315	gogichaishvilit@hcfllgov.net
CHRISTOPHER STINE		TRMIA Eng	813-274-7553	stinec@trmia.com
Jon-Paul Lavander	19	Code Enf.	813 307 175	Lavanderj@hcfllgov.net



Hillsborough County Florida

Office of Emergency Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting September 26, 2019 0900-1000

Name	ESF	Organization	Phone #	Email
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Ciro M Dominguez	16	HCSO	813 247 2151	CDominguez@HCSO.Tampa.FL.US
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Scott Murley		TTFD	813 506 6705	Smurley@templeterran.com
MARK MARTINEZ	13	MACDILL EMTA	(478) 951-5352	MARK.MARTINEZ,10@US.AF.MIC
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Julie Watkinson	6	HC Homeless Services	813-276-2677	watkinson@hcf.net.org
M Patterson		AHC		
Jen Fleischman		DEM - USF	813-474-8219	jfleischman@ust.edu
Mig Maruca	17	PRC	813-997-4138	maruca@hcf.gov.net
JAKSA PETROVIC	18	KECON DEV.	813 273 3719	petrovicj@HCFLGOV.NET



Hillsborough County Florida

Office of Emergency Management

Sign-in Sheet – Quarterly Emergency Actions Group Meeting September 26, 2019 0900-1000

Name	ESF	Organization	Phone #	Email
Bryan Eckhart	11	Aging SVCS	853-1000	EckhartB@HCF.gov.net
MARK MARTINEZ	7	MANAGEMENT + BLOCK	272-6215	MARTINEZ.M@HCF.gov.net
Shawn Collier		Hills. Planning Comm	273-3774367	Colliers@pln.com.org
Scott Clark	EWG	Sunshine Line	276 8140	Clarksd@hcf.gov.net
Isabel Acosta	ops.	OEM	272-5785	REPOLAI@hillsboroughcount.org
Oscar Harrison	19	Hillsborough Cty Property Appraiser	813-276-8859	HARRISONO@HCF.gov.net
Dan Moss	13	MacDill AFB	813-828-8549	Daniel.Moss.9.CTR@USAF.mil
DIANE SANCHEZ	6+11	Red Cross	813-310-7712	DIANE.SANCHEZ@REDCROSS.ORG
JOE MASTANDRETTA	5,13,15	HEOEM	272-5335	mastandrea@hcf.gov.net
Angelo Garcia	6	AFFORDABLE HOUSING	813-246-3163	agarcia@hcf.gov.net
JOSÉ BERCELDONI		OEM: FIRE RESCUE		BERCELDONI@HILLSBOROUGHCOUNTY.ORG
REBEKA WINDHAM	3	FACILITIES	813-274-6850	RW
Jay Rajyagun	5	OEM	813-416-8529	Rajyagunaj@HCF.gov.net
Janet Marnatti		Lib Sew	813-345-6313	marnattj@hcf.gov.net
Andrea Tristan		OEM	813-480-1391	tristanaw@hillsboroughcounty.org
Ted Williams	HSB?	OEM	813-334-5526	williamst@HCF.gov.net
ANGELA BARRIS	8	FL DOT - HILLSBOROUGH	813-344-7507	angela.barris@flhealth.gov



EVENT Public Meetings

DATE September 26, 2019 9:00 AM - 11:00 AM

Operations Group Meeting

The Operations Group/Training & Exercise Committee, and Local Mitigation Strategy Steering Committee meet quarterly.

Meetings take place in March, June, September and December.

Event Details

LOCATION

PSOC
9450 E. Columbus Dr.
Rm. 201 (EOC)
Tampa FL, 33619

DATE

September 26, 2019 | 9:00 AM

CONTACT

Michael Ryan
Deputy Emergency Manager
P (813) 272-6628





Bunzl Distribution

Hillsborough County Public Safety Office...

Brandon Headstart

Hillsborough Co Supervisor of Elect

Hillsborough Cou Sheriff's Office (HCS

E Columbus Dr

Regional Water Ln

Google

Report a map error



EVENT Public Meetings

DATE December 19, 2019 9:00 AM - 11:00 AM

Operations Group Meeting

The Operations Group/Training & Exercise Committee, and Local Mitigation Strategy Steering Committee meet quarterly.

Meetings take place in March, June, September and December.

Event Details

LOCATION

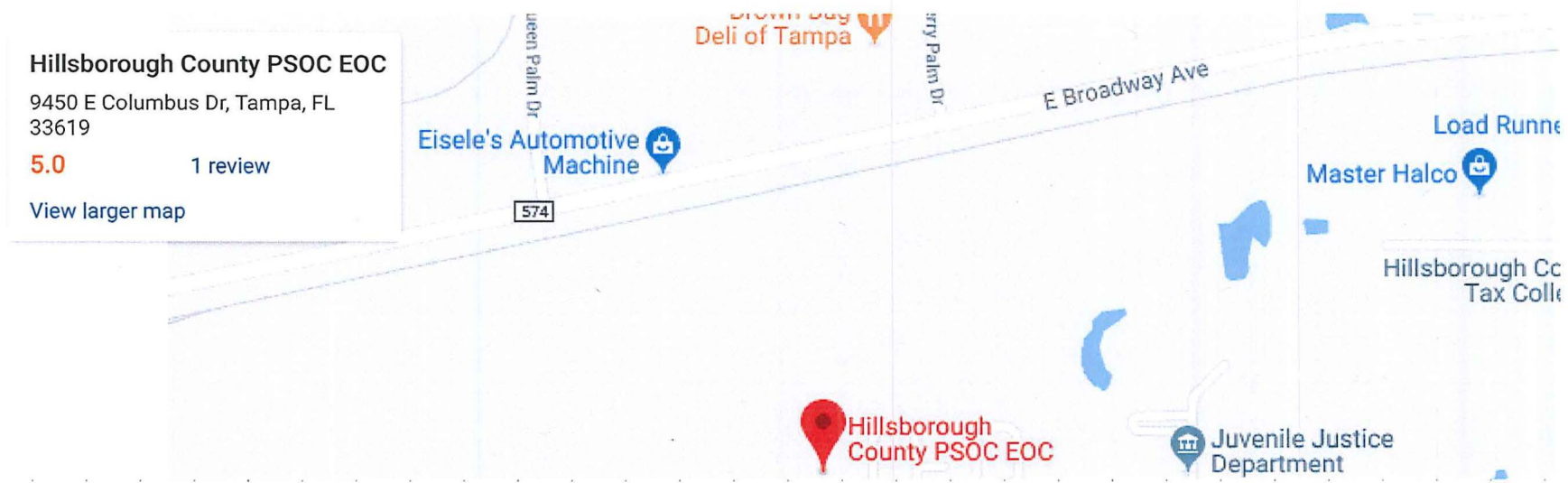
PSOC
9450 E. Columbus Dr.
Rm. 201 (EOC)
Tampa FL, 33619

DATE

December 19, 2019 | 9:00 AM

CONTACT

Michael Ryan
Deputy Emergency Manager
P (813) 272-6628





A Google Maps interface showing a blue path starting at the bottom left, heading east along E Columbus Dr, turning north at Regional Water Ln, then looping around to the east. Key locations marked include Bunzl Distribution, Hillsborough County Public Safety Office, Brandon Headstart, Hillsborough Co Supervisor of Elect, and Hillsborough Cou Sheriff's Office (HCS). The Google logo is centered at the bottom of the map area. A "Report a map error" link is visible in the bottom right corner of the map area.

ENCLOSURE 3

ADDITIONAL TEXT FOR QUESTIONS 3,5, 6, AND 7

27P-22 Memo additional comments:

3. Hazard Analysis Change

Are there any new or removed hazards? **Yes X**

Reference: FAC 27P-22. 004 (4)(e)(1) **No**

Comments:

If Yes, attach the LMS sections that have been updated.

Added hazards analyses were performed with respect to existing risks and vulnerabilities. However, respective analyses did neither identify new hazards nor risks. Additionally analyses were conducted for the following risks:

- Seal-level rise, which was initiated in part due to State Statutes; whereby, the State is having communities identify potential vulnerable infrastructure through the Peril of Flood Act. The County's project will encompass a total of three years; whereby, the County increased the scope of the requirement to perform added analyses to understand community vulnerabilities associated with human and environmental aspects of sea-level rise.
- Flood-hazard areas, which is a multi-year project to perform modeling with inland watersheds to better understand community needs. Respective analyses will include submitting applications to FEMA to update current-effective Flood Insurance Rate Maps. This process is estimated to span four years.
- Coastal digital Flood Insurance Rate Maps, which this year the County received Preliminary [coastal] Flood Insurance Rate Maps. These maps will affect approximately 100,000 persons within the City of Tampa and the unincorporated area of the county. The County and City will work with FEMA in the next nine to 12 months to update respective maps and notify affected property owners.
- Vulnerable populations, which is an in-depth analysis to review segments of the population in the evaluation of population segments at risks to hazards. This information will be used with the studies listed within the aforementioned.

5. Critical Facilities List

Have there been any changes to the critical facilities list within the past year? **Yes X**

Reference: FAC 27P-22. 004 (4)(e)(3) **No**

Comments:

If Yes, attach the updated list.

Summary:

The total number of CFIs as of 10/31/19 is 4,309 locations. The count from 11/28/18 was 4,059 locations. Of the amount in October 2019, there are 733 located within the Special Flood Hazard Area and 1,884 identified within hurricane evacuation zones.

6. Repetitive Loss Properties List

Have there been any additions or removals to the repetitive loss properties in any of your jurisdictions within the past year? **Yes X**

Reference: FAC 27P-22. 004 (4)(e)(4) **No**

Comments:

If yes, attach the updated list.

Summary

One addition – Johnson. The County completed assisting a resident with a reconstruction project that removed a repetitive-loss structure and rebuilt an elevated structure with a Federal grant.

Palm River Retreat – Permit issued for new construction compliant with NFIP

Gomez - Permit issued for new construction compliant with NFIP

Additionally, the following numbers (221) illustrate the number of flooded structures that were flooded within the County that are designated repetitive-loss structures.

Note: Addresses cannot be given due to Federal Privacy requirements.

7. Revisions to Maps

Were there any changes to maps included in the LMS within the past year? **Yes X**

Reference: FAC 27P-22. 004 (4)(e)(5) **No**

Comments:

If yes, attach the updated map(s).

Summary

The LMS Document is currently being updated which will change multiple maps associated with the hazard map series.

- Flood-hazard areas, which is a multi-year project to perform modeling with inland watersheds to better understand community needs. Respective analyses will include submitting applications to FEMA to update current-effective Flood Insurance Rate Maps. This process is estimated to span four years.
- Coastal digital Flood Insurance Rate Maps, which this year the County received Preliminary [coastal] Flood Insurance Rate Maps. These maps will affect approximately 100,000 persons within the City of Tampa and the unincorporated area of the county. The County and City will work with FEMA in the next nine to 12 months to update respective maps and notify affected property owners. The maps have not been accepted or adopted at this time and will be included with the five year update for which the adoption is scheduled for July 2020.

ENCLOSURE 4 LIST OF PROJECTS TABLES

Table – New Projects

CRITERIA TO PRIORITIZE MITIGATION PROJECTS Worksheet

Project Description:	Hyde Park Bridge	
Proposed Mitigation Measure:	Scour treatments at base	
Submitted By:	City of Tampa	
Criteria		Yes/No
Is the proposed measure warranted by the countywide vulnerability analysis?		Yes
If accomplished, would the measure enhance essential/critical services?		Yes
Is the project consistent with Growth-Management or Floodplain Management Plans?		Yes
Is the measure a long-term improvement?		Yes
Is the measure consistent with Local Mitigation Strategy's goal and objectives?		Yes
Is more than one Local Mitigation Strategy objective being met?		Yes
Does it meet the goals and objectives of the Comprehensive Emergency Management Plan?		Yes
Does the benefit exceed the cost?		Yes
Are the owner(s) committed to the project and willing to match funds as necessary?		Yes

Description

Earlier in 2019, the City of Tampa hired a consultant to study the scour effect on bridge foundations. Bridge scour is the removal of sediment, such as sand and gravel from around bridge abutments or piers. Left unchecked, scour can compromise the integrity of the bridge. The Hyde Park Bridge is located in the Category 1 zone and is susceptible to high wave effects and storm surge. The consultant study found that the Hyde Park Bridge is scour critical. A follow up engineering analysis is underway and will recommend the counter measures and cost estimates.

CRITERIA TO PRIORITIZE MITIGATION PROJECTS Worksheet

Project Description:	Howard F. Curran Advanced Wastewater Treatment Plant Stand-By Generator	
Proposed Mitigation Measure:	Install Standby Generator	
Submitted By:	City of Tampa	
Criteria		Yes/No
Is the proposed measure warranted by the countywide vulnerability analysis?		Yes
If accomplished, would the measure enhance essential/critical services?		Yes
Is the project consistent with Growth-Management or Floodplain Management Plans?		Yes
Is the measure a long-term improvement?		Yes
Is the measure consistent with Local Mitigation Strategy's goal and objectives?		Yes
Is more than one Local Mitigation Strategy objective being met?		Yes
Does it meet the goals and objectives of the Comprehensive Emergency Management Plan?		Yes
Does the benefit exceed the cost?		Yes
Are the owner(s) committed to the project and willing to match funds as necessary?		Yes

Description

The City of Tampa Wastewater Department indicates a need to install an additional standby generator at the Howard F. Curran Advanced Wastewater Treatment Plant. This additional standby generator will ensure continuous operation in times of power loss. The estimated cost is \$3.5 Million.

CRITERIA TO PRIORITIZE MITIGATION PROJECTS Worksheet

Project Description:	Hillsborough River Dam Embankment Stabilization
Proposed Mitigation Measure:	Scour treatments at base
Submitted By:	City of Tampa
Criteria	Yes/No
Is the proposed measure warranted by the countywide vulnerability analysis?	Yes
If accomplished, would the measure enhance essential/critical services?	Yes
Is the project consistent with Growth-Management or Floodplain Management Plans?	Yes
Is the measure a long-term improvement?	Yes
Is the measure consistent with Local Mitigation Strategy's goal and objectives?	Yes
Is more than one Local Mitigation Strategy objective being met?	Yes
Does it meet the goals and objectives of the Comprehensive Emergency Management Plan?	Yes
Does the benefit exceed the cost?	Yes
Are the owner(s) committed to the project and willing to match funds as necessary?	Yes

Description

The City of Tampa Water Department has identified a need to stabilize the north embankment of the Hillsborough River Dam (through grout injection) from potential erosion. This project will ensure continued operation of one of the City's highest rated critical facilities. The preliminary cost of the project is \$800,000.

CRITERIA TO PRIORITIZE MITIGATION PROJECTS Worksheet

Project Description:	San Carlos Pump Station Standby Rehabilitation	
Proposed Mitigation Measure:	Install Standby Generator	
Submitted By:	City of Tampa	
Criteria		Yes/No
Is the proposed measure warranted by the countywide vulnerability analysis?		Yes
If accomplished, would the measure enhance essential/critical services?		Yes
Is the project consistent with Growth-Management or Floodplain Management Plans?		Yes
Is the measure a long-term improvement?		Yes
Is the measure consistent with Local Mitigation Strategy's goal and objectives?		Yes
Is more than one Local Mitigation Strategy objective being met?		Yes
Does it meet the goals and objectives of the Comprehensive Emergency Management Plan?		Yes
Does the benefit exceed the cost?		Yes
Are the owner(s) committed to the project and willing to match funds as necessary?		Yes

Description

The City of Tampa Wastewater Department is finalizing plans to rehabilitate the San Carlos pumping station. The total estimated cost is \$17 Million. The project will measures to protect the generator from flooding and storm surge, including standby generators. Specific mitigation enhancements and costs will be identified in the final project design and budget.

APPENDIX B – RISK ASSESSMENT TABLES

This appendix includes additional data from the Risk Assessment Section.

The following table shows critical facilities vulnerable to the hazards analyzed in the Risk Assessment Section. The table lists those assets that are determined to be exposed to each of the identified hazards (marked with an “X”).

Table B.1: Critical Facilities at Risk – Plant City

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
SHERIFF'S OFFICE RADIO TOWER @ CPC - EAST SERVICE UNIT	Communication				X		X									
COMMUNICATION TOWER	Communication				X		X									
TECO INCIDENT BASE STRAWBERRY FEST GROUNDS	Emergency Services				X		X									
FLORIDA STRAWBERRY FESTIVAL INC	Emergency Services				X		X									
WALDEN LAKE ELEMENTARY SCHOOL	Emergency Shelters				X		X									
MARSHALL MIDDLE SCHOOL	Emergency Shelters				X											
TOMLIN MIDDLE SCHOOL	Emergency Shelters				X		X									
WILSON ELEMENTARY SCHOOL	Emergency Shelters				X											
SIMMONS CAREER CENTER	Emergency Shelters				X		X									
TECO PLANT CITY OPERATIONS	Energy	X			X		X									
TECO BUILDING PLANT CITY	Energy				X		X									
Station 1 (Fire Station No 1)	Fire/Rescue				X											
Station 2 (Fire Station No 2)	Fire/Rescue				X											
PLANT CITY POLICE DEPARTMENT	Law Enforcement	X			X											
Bruton Memorial Library	Library				X											
SOUTH FLORIDA BAPTIST HOSPITAL	Medical				X											
HEALTH CENTER OF PLANT CITY	Medical				X		X									
BRANDON REGIONAL HOSPITAL EMERGENCY CENTER AT CPC	Medical				X		X									
PLANT CITY WATER PLANT	Water/Wastewater				X											
PUMP STATION #10	Water/Wastewater				X											

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
PUMP STATION #12	Water/Wastewater	X			X		X									
PUMP STATION #14	Water/Wastewater				X											
PUMP STATION #17	Water/Wastewater				X											
PUMP STATION #18	Water/Wastewater	X			X		X									
PUMP STATION #19	Water/Wastewater				X		X									
PUMP STATION #02	Water/Wastewater	X			X											
PUMP STATION #20	Water/Wastewater				X											
PUMP STATION #21	Water/Wastewater				X											
PUMP STATION #22	Water/Wastewater				X		X									
PUMP STATION #23	Water/Wastewater				X		X									
PUMP STATION #03	Water/Wastewater				X											
PUMP STATION #06	Water/Wastewater				X		X									
PUMP STATION #08	Water/Wastewater				X		X									
WELL FIELD #5	Water/Wastewater				X		X									
PLANT CITY WATER DEPT	Water/Wastewater				X											
LIFT STATION #13	Water/Wastewater				X		X									
PUMP STATION #14	Water/Wastewater	X			X		X									
PUMP STATION #13	Water/Wastewater				X		X									
PUMP STATION #12	Water/Wastewater	X			X		X									
PUMP STATION #30	Water/Wastewater	X			X	X	X									
PUMP STATION #07	Water/Wastewater	X			X		X									
PUMP STATION #24	Water/Wastewater				X											
PUMP STATION #32	Water/Wastewater	X			X		X									
PUMP STATION #25	Water/Wastewater	X			X		X									
PUMP STATION #1	Water/Wastewater	X			X											
PUMP STATION #11	Water/Wastewater	X			X		X									
PUMP STATION #26	Water/Wastewater				X		X									
PUMP STATION #28	Water/Wastewater				X											

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
PUMP STATION #31	Water/Wastewater				X		X									
PUMP STATION #35	Water/Wastewater				X		X									
PUMP STATION #33	Water/Wastewater				X											
PUMP STATION #37	Water/Wastewater				X		X									
PUMP STATION #8	Water/Wastewater				X		X									
PUMP STATION #7	Water/Wastewater				X		X									
PUMP STATION #6	Water/Wastewater				X		X									
PUMP STATION #10	Water/Wastewater				X		X									
PUMP STATION #09	Water/Wastewater	X			X											
PUMP STATION #38	Water/Wastewater				X		X									
PUMP STATION #34	Water/Wastewater				X		X									
PUMP STATION #29	Water/Wastewater				X											
PUMP STATION #27	Water/Wastewater				X											
PUMP STATION #05	Water/Wastewater				X		X									
PUMP STATION #36	Water/Wastewater				X		X									
PUMP STATION #3	Water/Wastewater				X											
PUMP STATION #01	Water/Wastewater	X			X		X									
PUMP STATION #2	Water/Wastewater				X		X									
PUMP STATION #11	Water/Wastewater				X											
LIFT STATION CPC	Water/Wastewater				X		X									
LIFT STATION CPC	Water/Wastewater				X											
LIFT STATION #04	Water/Wastewater				X											
LIFT STATION #39	Water/Wastewater	X			X											
LIFT STATION #40	Water/Wastewater				X		X									
LIFT STATION P-4	Water/Wastewater				X		X									
LIFT STATION P-5	Water/Wastewater				X		X									
LIFT STATION P-9	Water/Wastewater				X		X									

Table B.2: Critical Facilities at Risk – Tampa

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
DTCC - CLEARINGHOUSE DEPO	Commercial/Financial															
ONE METRO CENTER	Commercial/Financial						X				X	X				
ACTS YOUTH SERVICES	Commercial/Financial				X		X					X				
RAYMOND JAMES STADIUM - PRIMARY PODS	Commercial/Financial						X									
CONCOURSE CENTER	Commercial/Financial	X						X	X	X	X	X			X	X
FORENSIC RESIDENTIAL TREATMENT PROGRAM	Commercial/Financial				X											
EGYPT LAKE TRANSMITTER	Communication						X					X				
PUBLIC WORKS TRANSMITTER	Communication				X		X									
ELECTRONIC DIVISION	Communication				X		X									
NEBRASKA AVE TRANSMITTER	Communication				X		X		X	X	X	X				
CANTEBURY TOWERS INC	Communication						X		X	X	X	X				
FIRST FLORIDA TOWER	Communication				X		X		X	X	X	X				
COMMUNICATION TOWER	Communication				X											
SHERIFF'S OPERATION CENTER RADIO TOWER	Communication				X						X	X				
SHERIFF'S OFFICE RADIO TOWER @ TGH	Communication	X			X			X	X	X	X	X				X
TPD SPECIAL OPS COOP SECONDARY SITE	Emergency Services				X											
RESPONSE CENTER	Emergency Services				X				X	X	X	X				
LEE DAVIS NEIGHBORHOOD SERVICE CENTER	Emergency Services				X		X									
HCC DALE MABRY CAMPUS STAGING AREA	Emergency Services											X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
OAK PARK ELEMENTARY SCHOOL	Emergency Shelters				X							X				
CHAMBERLAIN HIGH SCHOOL	Emergency Shelters				X		X					X				
BENITO MIDDLE SCHOOL	Emergency Shelters				X											
CHILES ELEMENTARY SCHOOL	Emergency Shelters															
FOREST HILLS ELEMENTARY SCHOOL	Emergency Shelters				X		X					X				
HERITAGE ELEMENTARY SCHOOL	Emergency Shelters				X		X									
LOCKHART ELEMENTARY MAGNET SCHOOL	Emergency Shelters				X											
LOMAX ELEMENTARY SCHOOL	Emergency Shelters				X		X									
MIDDLETON HIGH SCHOOL	Emergency Shelters				X											
PIZZO ELEMENTARY SCHOOL	Emergency Shelters				X											
SHEEHY ELEMENTARY SCHOOL	Emergency Shelters						X									
SLIGH MIDDLE SCHOOL	Emergency Shelters				X		X									
TAMPA BAY BOULEVARD ELEMENTARY SCHOOL	Emergency Shelters											X				
TAMPA PALMS ELEMENTARY SCHOOL	Emergency Shelters															
GEORGE WASHINGTON CARVER CENTER	Emergency Shelters															
ERWIN VOCATIONAL TECHNICAL CENTER	Emergency Shelters															
USF SUNDOME	Emergency Shelters				X											
AMERICAN RED CROSS	Emergency Shelters						X					X				
HILLSBOROUGH RIVER DAM	Energy	X			X											
OHIO SUBSTATION	Energy											X				
TECO - CENTRAL OPERATIONS	Energy				X		X									
TECO DATA CENTER	Energy				X							X				
TECO CLEARVIEW SUBSTATION	Energy										X	X				
TECO SUBSTATION	Energy								X	X	X	X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
TECO SUBSTATION	Energy				X						X	X				
MACDILL SUBSTATION	Energy	X					X	X	X	X	X	X			X	X
SKYWAY SUBSTATION	Energy	X						X	X	X	X	X				X
PEOPLES GAS	Energy				X		X		X	X	X	X				
TECO SUBSTATION	Energy				X		X		X	X	X	X				
FOURTEENTH ST SUBSTATION	Energy				X		X									
TECO SUBSTATION	Energy						X									
TECO ESTUARY SUBSTATION	Energy				X			X	X	X	X	X				
EL PRADO SUBSTATION # 2340	Energy	X						X	X	X	X	X			X	X
TECO SUBSTATION	Energy	X						X	X	X	X	X			X	X
TECO BOYSCOUT #2341 SUBSTATION	Energy						X			X	X	X				
TECO SUBSTATION/BELMONT HEIGHTS SUB STATION	Energy				X		X									
TECO SUBSTATION	Energy	X			X		X	X	X	X	X	X				X
HOOKERS POINT TRANSMISSION SUBSTATION	Energy	X			X			X	X	X	X	X			X	X
TECO BAYCOURT SUBSTATION	Energy						X		X	X	X	X				
ROME AVE SUBSTATION	Energy				X						X	X				
TECO SUBSTATION	Energy				X					X	X	X				
GRAY ST SUBSTATION #2341	Energy						X		X	X	X	X				
STADIUM SUBSTATION	Energy											X				
TECO PLYMOUTH SUBSTATION	Energy				X		X				X	X				
TECO SUBSTATION	Energy				X		X			X	X	X				
MATANZAS SUBSTATION	Energy						X				X	X				
TECO MANHATTAN SUBSTATION	Energy							X	X	X	X	X				X
LOIS AVE SUBSTATION	Energy									X	X	X				
TECO SUBSTATION	Energy															

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
TECO SUBSTATION/HYDE PARK SUBSTATION	Energy										X	X				
TECO SENECA SUBSTATION	Energy				X		X					X				
MCKINLEY SUBSTATION	Energy				X											
TECO SUBSTATION- JUNEAU SUBSTATION	Energy				X		X				X	X				
TECO SUBSTATION	Energy						X									
CROSSCREEK SUB-STATION	Energy				X		X									
TECO SUBSTATION-PEBBLE CREEK	Energy															
TECO GRANADA SUBSTATION	Energy									X	X	X				
CENTRAL CHILER PLANT	Energy				X						X	X				
KINDER MORGAN LIQUIDS TERMINALS LLC	Energy	X			X			X	X	X	X	X				
MARATHON OIL CO	Energy	X			X			X	X	X	X	X		X	X	X
BUCKEYE TERMINALS LLC	Energy	X			X			X	X	X	X	X				X
E A MARIANA ASPHALT CO	Energy	X			X			X	X	X	X	X				X
MURPHY OIL USA	Energy	X			X			X	X	X	X	X			X	X
AMALIE OIL CO	Energy	X			X			X	X	X	X	X		X	X	X
AMALIE OIL CO	Energy	X			X			X	X	X	X	X			X	X
AMALIE OIL CO	Energy	X			X			X	X	X	X	X			X	X
TRANSMONTAIGNE TERMINAL	Energy	X			X			X	X	X	X	X			X	X
AMALIE OIL CO	Energy	X			X			X	X	X	X	X				X
AMALIE OIL CO	Energy							X	X	X	X	X				X
KINDER MORGAN LIQUIDS TERMINALS LLC	Energy	X			X		X	X	X	X	X	X		X	X	X
KINDER MORGAN LIQUIDS TERMINALS LLC	Energy	X			X			X	X	X	X	X			X	X

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
KINDER MORGAN	Energy	X			X					X	X	X				
KINDER MORGAN LIQUIDS TERMINALS LLC	Energy	X			X			X	X	X	X	X			X	X
CITGO	Energy	X			X			X	X	X	X	X			X	X
CITGO	Energy	X			X			X	X	X	X	X		X	X	X
TRANSFLO TERMINAL SERVICES INC	Energy	X			X				X	X	X	X				
Station 20 (Fire Station No 20)	Fire/Rescue															
Station 18 (Fire Station No 18)	Fire/Rescue						X									
Station 17 (Fire Station No 17)	Fire/Rescue	X			X		X	X	X	X	X	X			X	X
Station 15 (Fire Station No 15)	Fire/Rescue								X	X	X	X				
Station 14 (Fire Station No 14)	Fire/Rescue									X	X	X				
Station 13 (Fire Station No 13)	Fire/Rescue				X		X									
Station 11 (Fire Station No 11)	Fire/Rescue				X		X					X				
Station 8 (Fire Station No 8)	Fire/Rescue									X	X	X				
Station 7 (Fire Station No 7)	Fire/Rescue				X											
Station 5 (Fire Station No 5)	Fire/Rescue				X											
Station 4 (Fire Station No 4)	Fire/Rescue				X						X	X				
Station 3 (Fire Station No 3)	Fire/Rescue				X					X	X	X				
Station 1 (Fire Station No 1)	Fire/Rescue				X						X	X				
Station 2 (Fire Station No 2)	Fire/Rescue									X	X	X				
Station 21 (Fire Station No 21)	Fire/Rescue						X									
Station 6 (Fire Station No 6)	Fire/Rescue		X		X			X	X	X	X	X				X
Station 9 (Fire Station No 9)	Fire/Rescue											X				
Station 10 (Fire Station No 10)	Fire/Rescue				X		X									
Station 12 (Fire Station No 12)	Fire/Rescue						X									
Station 16 (Fire Station No 16)	Fire/Rescue				X						X	X				
Station 19 (Fire Station No 19)	Fire/Rescue	X						X	X	X	X	X				X
Training (Tampa)	Fire/Rescue		X		X			X	X	X	X	X				X

APPENDIX B – RISK ASSESSMENT TABLES

2020 LMS

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
Supply (Tampa)	Fire/Rescue	X			X			X	X	X	X	X				X
Dispatch (Tampa)	Fire/Rescue				X		X									
Station 23 (Tampa)	Fire/Rescue						X									
WORK RELEASE	Government/Administration										X	X				
CENTRAL FLEET	Government/Administration						X				X	X				
FLEET MAINTENANCE	Government/Administration				X		X				X	X				
ACTS (COUNTY)	Government/Administration				X							X				
ACTS (COUNTY)	Government/Administration				X		X									
ACTS FACILITIES	Government/Administration				X											
MOSI	Government/Administration				X											
PUBLIC WORKS MAINTENANCE FACILITY	Government/Administration				X		X									
ROBLES PARK	Government/Administration	X			X		X				X	X				
SOLID WASTE ADMINISTRATION	Government/Administration										X	X				
HILLSBOROUGH COUNTY MEDICAL EXAMINER	Government/Administration				X		X									
STATE OF FLORIDA DEP JUVINE JUSTICE	Government/Administration	X						X	X	X	X	X			X	X
WHISPERING OAKS	Government/Administration				X											
JOHNSON DEANNA C	Government/Administration											X				
JONES ERMA	Government/Administration										X	X				
LESTER PATRICIA ANN	Government/Administration				X		X									
MARIE SANDRA JEANNOT	Government/Administration								X	X	X	X				
MARIN MARIA LUISA	Government/Administration															
MENTOR ROSIA	Government/Administration				X		X									
THOMPSON NOVLETTE	Government/Administration				X											
WILLIAMS PHOEBE	Government/Administration				X											
WILLIAMS SONYA	Government/Administration									X	X	X				

APPENDIX B – RISK ASSESSMENT TABLES

2020 LMS

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
DPW YARD	Government/Administration				X							X				
COAST GUARD PREVENTION OFFICES	Industrial/Chemical	X			X		X	X	X	X	X	X			X	X
MAC DILL AIR FORCE BASE	Industrial/Chemical	X					X	X	X	X	X	X			X	X
TAMPA DRY DOCK	Industrial/Chemical	X			X			X	X	X	X	X			X	X
BUCKEGE TEAM SOUTH	Industrial/Chemical	X			X			X	X	X	X	X			X	X
MOSAIC FERTILIZER	Industrial/Chemical	X			X				X	X	X	X				
BUCKEGE TEAM NORTH	Industrial/Chemical	X			X			X	X	X	X	X			X	X
ORIENT ROAD JAIL	Law Enforcement				X		X		X	X	X	X				
FLORIDA HIGHWAY PATROL TROOP C	Law Enforcement				X											
FLORIDA MARINE PATROL	Law Enforcement	X					X	X	X	X	X	X				X
FDLE AND JUVENILE JUSTICE DETENTION CTR.	Law Enforcement						X					X				
TPD AVIATION UNIT	Law Enforcement						X				X	X				
TPD HEADQUARTERS	Law Enforcement				X					X	X	X				
TPD DISTRICT 1	Law Enforcement											X				
TAMPA POLICE DISTRICT 2 COOP	Law Enforcement				X		X									
TPD DISTRICT 2	Law Enforcement				X		X									
TPD DISTRICT 3	Law Enforcement				X		X									
SHERIFF'S OPERATION CENTER	Law Enforcement				X						X	X				
USF POLICE/911	Law Enforcement						X									
USF-SUN DOME - PRIMARY PODS	Law Enforcement				X											
John F Germany Public Library	Library				X		X		X	X	X	X				
C. Blythe Andrews, Jr Public Library	Library				X		X									
Jan Kaminis Platt Regional Library	Library						X	X	X	X	X	X				X
New Tampa Regional Library	Library				X											
North Tampa Branch Library	Library				X		X					X				
Charles J. Fendig Public Library	Library									X	X	X				
West Tampa Library And Museum	Library											X				

APPENDIX B – RISK ASSESSMENT TABLES

2020 LMS

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
Robert W. Saunders, Sr. Public Library	Library				X											
Seminole Heights Branch Library	Library															
Norma & Joseph Sulphur Springs Partnership Library	Library				X											
Port Tampa City Library	Library	X					X	X	X	X	X	X			X	X
KINDRED HOSPITAL BAY AREA	Medical						X	X	X	X	X	X				X
MEMORIAL HOSPITAL OF TAMPA	Medical						X				X	X				
H LEE MOFFIT CANCER CTR & RESEARCH HOSPITAL	Medical				X											
SHRINERS HOSPITAL FOR CHILDREN-TAMPA	Medical				X											
ST JOSEPH'S HOSPITAL	Medical						X					X				
TAMPA GENERAL HOSPITAL	Medical	X			X			X	X	X	X	X			X	X
KINDRED HOSPITAL-CENTRAL TAMPA	Medical						X				X	X				
REHABILITATION AND HEALTHCARE CENTER	Medical						X					X				
SOUTH TAMPA HEALTH & REHAB CENTER	Medical		X				X	X	X	X	X	X				X
JUVENILE ASSESSMENT CENTER	Medical				X							X				
ST JOSEPH'S WOMEN HOSPITAL	Medical											X				
DEP OF HEALTH BUREAU OF HEALTH LAB	Medical				X		X									
ST JOSEPH'S HOSPITAL BEHAVIORAL HEALTH CENTER	Medical						X									
H LEE MOFFIT CANCER CENTER & RESEARCH INT HOSP LAB	Medical				X											
H LEE MOFFIT CANCER CENTER & RESEARCH INT HOSP LAB	Medical											X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
MACDILL AFB	Military						X		X	X	X	X				
LIFEPATH HOSPICE AND PALLIATIVE CARE INC	Special Populations										X	X				
LOWRY VILLAGE	Special Populations				X		X				X	X				
BAYSHORE POINTE NURSING & REHAB CENTER	Special Populations						X	X	X	X	X	X				
HABANA HEALTH CARE CENTER	Special Populations						X					X				
HOME ASSOCIATION, THE	Special Populations				X		X									
YBOR CITY HEALTH CARE	Special Populations				X											
ASIG TAMPA FUEL FACILITY	Transportation				X						X	X				
FAA AIRPORT LIGHTING	Transportation	X						X	X	X	X	X			X	X
PLATT STREET BRIDGE	Transportation	X			X		X						X	X	X	X
TAMPA INTERNATIONAL AIRPORT	Transportation				X					X	X	X				
LANDMARK AVIATION	Transportation										X	X				
REMOTE TRANSMITTER	Transportation									X	X	X				
MARINE UNIT - TAMPA PORT	Transportation	X			X			X	X	X	X	X				X
BROREIN ST BRIDGE	Transportation	X			X		X						X	X	X	X
DAVIS ISLANDS BRIDGE	Transportation	X											X	X	X	X
HOOKERS POINT WASTEWATER STATION	Water/Wastewater	X			X			X	X	X	X	X				X
MORRIS BRIDGE WATER TREATMENT PLANT	Water/Wastewater															
ROGERS PARK GOLF COURSE WATER TREATMENT PLANT	Water/Wastewater				X											
TGH HEALTH PARK.	Water/Wastewater						X									
MCKAY BAY TRANSMITTER	Water/Wastewater		X		X					X	X	X				
109TH AND N. BOULEVARD STATION	Water/Wastewater	X			X	X	X				X	X				
BURSTON CARRIE DELL	Water/Wastewater				X											

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
TAMPA CROSSROADS	Water/Wastewater						X									

Table B.3: Critical Facilities at Risk – Temple Terrace

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
VERIZON SWITCHING STATION	Communication															
GRECO MIDDLE SCHOOL	Emergency Shelters						X									
ROLAND H. LEWIS ELEMENTARY SCHOOL	Emergency Shelters															
TEMPLE TERRACE ELEMENTARY SCHOOL	Emergency Shelters															
TECO SUBSTATION RIVER	Energy				X							X				
TECO SUBSTATION-GTE COLLIER SUBSTATION	Energy						X									
Station 2 (Fire Station No 2)	Fire/Rescue						X									
Station 1 (Fire Station No 1)	Fire/Rescue															
TEMPLE TERRACE CITY HALL/POLICE	Law Enforcement						X									
Temple Terrace Library	Library															
BRANDON REGIONAL HOSPITAL EMERGENCY CENTER AT TT	Medical						X									
DCFS - BETTERLY	Special Populations	X			X		X					X				
LIFEPATH HOSPICE AND PALLIATIVE CARE INC	Special Populations					X	X									

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
LIFEPATH HOSPICE CORP HQ	Special Populations															
LIFE PATH HOSPICE CORP OFFICE	Special Populations					X	X									
RIVER RUN LIFT STATION	Water/Wastewater				X		X									
SUNNINGDALE WATER PLANT	Water/Wastewater						X									
WELL SITE #11	Water/Wastewater															
TEMPLE TERRACE WATER PLT.	Water/Wastewater															
WELLS #7,#8,#9,#12	Water/Wastewater						X									
TEMPLE TERRACE PUBLIC WORKS	Water/Wastewater						X									
ROLLING TERRACE STORMWATER PUMP STATION	Water/Wastewater				X		X					X				
TELECOM WATER STORAGE TANK/PUMP STATION	Water/Wastewater						X									

Table B.4: Critical Facilities at Risk – Unincorporated

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
JP MORGAN CHASE	Commercial/Financial				X		X									
BRADYWINE BUSSINESS CENTER	Commercial/Financial				X		X									
HILLSBOROUGH COUNTY WAREHOUSE AT FALKENBURG RD	Commercial/Financial				X											
AT&T CORP	Communication				X							X				
RADAR SITE (FAA)	Communication				X					X	X	X				
RADAR SITE (FAA)	Communication				X			X	X	X	X					

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
114 RAFFERTY	Communication				X		X		X	X	X	X				
ALLTEL WIRELESS CELL TOWER	Communication					X	X		X	X	X	X				
392 ATC MCINTOSH	Communication				X		X									
CINGULAR/ SPRINT/ VERIZON CELL TOWER	Communication						X									
SHERIFF'S OFFICE RADIO TOWER @ BRANDON HCFR#11	Communication				X		X									
SHERIFF'S OFFICE RADIO TOWER @ ARMDALE HCFR#10	Communication				X		X					X				
SHERIFF'S OFFICE RADIO TOWER @ CORK KNIGHT HCFR#26	Communication				X											
SHERIFF'S OFFICE RADIO TOWER @ GUNN HWY HCFR#13	Communication				X		X									
SHERIFF'S OFFICE RADIO TOWER @ PINECREST HCFR#2	Communication				X		X									
SHERIFF'S OFFICE RADIO TOWER @ DISTRICT 4	Communication	X														
SHERIFF'S OFFICE RADIO TOWER @ WIMAUMA HCFR #22	Communication						X									
ESA T&D STAGING AREA AT STATE FAIRGROUND	Emergency Services				X						X	X				
JIMMIE B KEEL REGIONAL LIBRARY	Emergency Services				X		X									
ROBERT P STEWART CENTER	Emergency Services				X											
BLOOMINGDALE REGIONAL PUBLIC LIBRARY	Emergency Services				X		X									
SOUTHSHORE REGIONAL SERVICE CENTER	Emergency Services															
UPPER TAMPA BAY LIBRARY	Emergency Services				X		X			X	X	X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
BRANDON REGIONAL SERVICE CENTER	Emergency Services				X		X									
NEWSOME HIGH SCHOOL	Emergency Shelters				X											
DURANT SENIOR HIGH SCHOOL	Emergency Shelters				X											
ARMWOOD HIGH SCHOOL	Emergency Shelters				X		X									
CYPRESS CREEK ELEMENTARY SCHOOL	Emergency Shelters															
SUMMERFIELD ELEMENTARY SCHOOL	Emergency Shelters						X									
BARTELS MIDDLE SCHOOL	Emergency Shelters						X									
BEVIS ELEMENTARY SCHOOL	Emergency Shelters				X											
BLOOMINGDALE HIGH SCHOOL	Emergency Shelters				X	X										
BOYETTE SPRINGS ELEMENTARY SCHOOL	Emergency Shelters				X											
BROOKER ELEMENTARY SCHOOL	Emergency Shelters				X		X									
BURNETT MIDDLE SCHOOL	Emergency Shelters				X											
CANNELLA ELEMENTARY SCHOOL	Emergency Shelters				X		X									
CARROLLWOOD ELEMENTARY SCHOOL	Emergency Shelters				X		X									
CIMINO ELEMENTARY SCHOOL	Emergency Shelters				X		X									
COLLINS ELEMENTARY SCHOOL	Emergency Shelters						X									
CORK ELEMENTARY SCHOOL	Emergency Shelters				X											
JENNINGS MIDDLE SCHOOL	Emergency Shelters				X		X									
KNIGHTS ELEMENTARY SCHOOL	Emergency Shelters				X		X									
LAKE MAGDALENE ELEMENTARY SCHOOL	Emergency Shelters				X		X									
BOB MARTINEZ MIDDLE SCHOOL	Emergency Shelters				X											
MCKITRICK ELEMENTARY SCHOOL	Emergency Shelters				X		X									
MCLANE MIDDLE SCHOOL	Emergency Shelters				X		X									
MORT ELEMENTARY / COUNTY PARK	Emergency Shelters				X		X									
MULLER ELEMENTARY SCHOOL	Emergency Shelters				X											

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
MULRENNAN MIDDLE SCHOOL	Emergency Shelters				X		X									
NELSON ELEMENTARY SCHOOL	Emergency Shelters				X		X									
PRIDE ELEMENTARY SCHOOL	Emergency Shelters				X		X									
SCHMIDT ELEMENTARY SCHOOL	Emergency Shelters				X											
SESSUMS ELEMENTARY SCHOOL	Emergency Shelters				X		X									
SHIELDS MIDDLE SCHOOL	Emergency Shelters															
WALTER L. SICKLES HIGH SCHOOL.	Emergency Shelters				X											
SPRINGHEAD ELEMENTARY SCHOOL	Emergency Shelters				X		X									
TURKEY CREEK MIDDLE SCHOOL	Emergency Shelters				X		X									
VALRICO ELEMENTARY SCHOOL	Emergency Shelters				X		X									
WHARTON HIGH SCHOOL	Emergency Shelters															
RIVERVIEW HIGH SCHOOL	Emergency Shelters				X		X									
SUMMERFIELD CROSSINGS ELEMENTARY SCHOOL	Emergency Shelters						X									
BRANDON HIGH SCHOOL	Emergency Shelters				X		X									
HAMMOND ELEMENTARY SCHOOL	Emergency Shelters				X											
REDDICK ELEMENTARY SCHOOL	Emergency Shelters						X									
SMITH MIDDLE SCHOOL	Emergency Shelters				X		X									
STRAWBERRY CREST HIGH	Emergency Shelters				X											
STOWERS ELEMENTARY SCHOOL	Emergency Shelters				X											
STEINBRENNER HIGH	Emergency Shelters				X											
BOWERS WHITLEY	Emergency Shelters				X		X									
BARRINGTON MIDDLE	Emergency Shelters				X											
TECO MADISON SUBSTATION	Energy				X		X		X	X	X	X				
FLORIDA GAS TRANSMISSION	Energy				X		X		X	X	X	X				
TAMPA ELECTRIC - BAYSIDE PLANT	Energy	X			X			X	X	X	X	X			X	X
SEMINOLE ELECTRIC COOPERATIVE INC.	Energy				X											

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
TECO SUBSTATION SHELDON	Energy				X		X			X	X	X				
TECO EASTERN AREA OPERATIONS CENTER	Energy				X		X				X	X				
TECO SUB-STATION	Energy				X		X									
TECO SUBSTATION #3139	Energy				X		X									
TECO SUBSTATION / VERIZON WIRELESS CELL TOWER	Energy				X		X									
TECO MAINTENANCE CENTER	Energy															
FLORIDA GAS TRANSMISSION	Energy				X		X									
PEOPLES GAS SYSTEM	Energy				X		X	X	X	X	X	X				
PINECREST LAND CO GAS GATE STATION	Energy				X		X									
TECO / PEOPLES GAS	Energy						X									
TECO SUBSTATION	Energy	X					X									
TECO SUBSTATION SUBSTATION FIRST ST 2533	Energy	X						X	X	X	X	X			X	X
FLORIDA GAS TRANSMISSION	Energy				X						X	X				
BID BEND TECO SUBSTATION	Energy	X			X			X	X	X	X	X			X	X
TAMPA ELECTRIC - BAYSIDE PLANT SUBSTATION	Energy	X			X			X	X	X	X	X				X
TECO SUBSTATION AND CELL TOWER	Energy						X				X	X				
TECO SUBSTATION	Energy				X											
TECO SUBSTATION AND CINGULAR / SPRINT CELL TOWER	Energy				X		X									
TECO MCFARLAND SUBSTATION	Energy				X		X									
LITHIA H2S REMOVAL FACILITY	Energy				X											
FLORIDA GAS TRANSMISSION	Energy				X		X									
ORIENT PARK STATION	Energy				X		X				X	X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
TECO SUBSTATION/ CINGULAR/ T-MOBILE CELL TOWER	Energy				X											
TECO SUBSTATION - FISHHAWK	Energy				X											
TECO SUBSTATION - ASPEN	Energy															
PORT CONSOLIDATED INC	Energy				X			X	X	X	X	X				X
PORT CONSOLIDATED INC	Energy	X			X			X	X	X	X	X			X	X
KINDER MORGAN LIQUIDS TERMINALS LLC	Energy				X		X									
PURAGLOBE	Energy	X			X			X	X	X	X	X			X	X
Station 39 (Tampa Shores)	Fire/Rescue	X			X		X	X	X	X	X	X				X
Station 23 (DOVER)	Fire/Rescue				X		X									
Station 20 (W HILLSBOROUGH 1)	Fire/Rescue		X		X		X	X	X	X	X	X				X
Station 3 (SUMMERFIELD)	Fire/Rescue															
Station 9 (SABAL PARK)	Fire/Rescue				X							X				
Station 43 (UCH FLETCHER)	Fire/Rescue															
Station 5 (UNIVERSITY)	Fire/Rescue				X		X									
Station 11 (BRANDON)	Fire/Rescue				X											
Station 21 (THONOTOSASSA)	Fire/Rescue				X		X									
Station 36 (VALRICO)	Fire/Rescue				X		X									
Station 33 (FALKENBURG)	Fire/Rescue				X		X				X	X				
Station 32 (EAST LAKE SQUARE)	Fire/Rescue				X		X					X				
Station 4 (ARMWOOD)	Fire/Rescue				X		X									
Station 28 (SUN CITY/ED POWERS)	Fire/Rescue						X									
Station 13 (GUNN HIGHWAY)	Fire/Rescue				X		X									
Station 17 (RUSKIN)	Fire/Rescue	X					X	X	X	X	X	X				X
Station 12 (GIBSONTON)	Fire/Rescue				X						X	X				
Station 24 (LUTZ)	Fire/Rescue				X		X									
Station 19 (CARROLLWOOD)	Fire/Rescue				X		X									

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
Station 10 (ARMDALE)	Fire/Rescue				X		X					X				
Station 37 (PROVIDENCE ROAD)	Fire/Rescue				X		X									
Station 38 (RIVER OAKS)	Fire/Rescue				X		X			X	X	X				
Station 22 (WIMAUMA)	Fire/Rescue															
Station 35 (WESTCHASE)	Fire/Rescue				X		X	X	X	X	X	X				
Station 34 (VAN DYKE)	Fire/Rescue				X		X									
Station 2 (LITHIA)	Fire/Rescue				X		X									
Station 18 (NORTH BRANDON)	Fire/Rescue				X											
Station 30 (MIDWAY)	Fire/Rescue				X		X									
Station 6 (HENDERSON)	Fire/Rescue				X		X				X	X				
Station 26 (CORK-KNIGHTS)	Fire/Rescue				X		X									
Station 27 (BLOOMINGDALE II)	Fire/Rescue				X		X									
Station 16 (RIVERVIEW)	Fire/Rescue				X		X				X	X				
Station 1 (PROGRESS VILLAGE)	Fire/Rescue				X		X			X	X	X				
Station 15 (PALM RIVER)	Fire/Rescue				X		X	X	X	X	X	X				
Station 8 (SUNDANCE)	Fire/Rescue										X	X				
Station 29 (APOLLO BEACH)	Fire/Rescue	X					X	X	X	X	X	X			X	X
Station 31 (W HILLSBOROUGH II)	Fire/Rescue	X			X		X	X	X	X	X	X			X	X
Station 40 (CHAPMAN)	Fire/Rescue				X		X									
Station 42 (COUNTRY PLACE)	Fire/Rescue				X											
Station 41 (NORTHDALE)	Fire/Rescue				X											
Station 14 (NORTH HILLSBOROUGH)	Fire/Rescue				X		X									
Station 22 (Fire Station No 22)	Fire/Rescue	X			X											
Station 7 (SOUTH BRANDON)	Fire/Rescue				X		X									
Station 25 (SPRINGHEAD)	Fire/Rescue				X											
HQ-PSOC (PSOC)	Fire/Rescue				X							X				
Station 44 (FISHHAWK)	Fire/Rescue				X											
SOUTH COUNTY MAINTENANCE UNIT	Government/Administration															

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
HILLSBOROUGH CNTY CORRECTIONAL INSTITUTION	Government/Administration						X									
PINEBROOKE BULDING 2	Government/Administration				X		X									
COUNTYWIDE CONSTRUCTION	Government/Administration				X											
STORAGE BLDG & SERVICES CENTER	Government/Administration				X											
HILLS CNTY COOPERATIVE EXTENSION SVE	Government/Administration				X		X									
PARKS MAINTENANCE UNIT II	Government/Administration	X			X		X									
SOUTHEAST COUNTY LANDFILL	Government/Administration															
ALDERMANS FORD PARK - COMMUNITY COLLECTION	Government/Administration	X			X		X									
HILLSBOROUGH COUNTY BRANDON SUPPORT OPERATIONS COMPLEX	Government/Administration				X		X									
YARA NORTH AMERICA	Industrial/Chemical	X			X			X	X	X	X	X			X	X
BIG BEND MARINE TERMINAL	Industrial/Chemical	X			X				X	X	X	X				
PINEBROOKE BULDING 1	Law Enforcement				X											
FALKENBURG ROAD JAIL	Law Enforcement				X		X									
AVIATION UNIT - VANDENBURG AIRPORT	Law Enforcement				X					X	X	X				
SHERIFF'S OFFICE DISTRICT 3	Law Enforcement				X		X					X				
DEPARTMENT OF JUVENILE JUSTICE DETENTION CENTER	Law Enforcement				X											
SHERIFF'S OFFICE DISTRICT 2	Law Enforcement				X											
SHERIFF'S OFFICE DISTRICT 4	Law Enforcement															
SHERIFFS OFFICE DISTRICT I	Law Enforcement				X		X									
SHERIFFS OFFICE DISTRICT 5	Law Enforcement				X											
PINEBROOKE BULDING 4	Law Enforcement				X											
Austin Davis Public Library	Library				X											

APPENDIX B – RISK ASSESSMENT TABLES

2020 LMS

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
Brandon Regional Library	Library				X	X	X									
78Th Street Community Library	Library				X					X	X	X				
Jimmie B. Keel Regional Library	Library				X		X									
Lutz Branch Library	Library				X		X									
Riverview Branch Library	Library	X			X		X	X	X	X	X	X				
Ruskin Branch Library	Library	X					X	X	X	X	X	X			X	X
Seffner-Mango Branch Library	Library				X		X									
Thonotosassa Branch Library	Library				X											
Egypt Lake Partnership Library	Library				X		X									
Bloomington Regional Public Library	Library				X		X									
Southshore Regional Library	Library															
Upper Tampa Bay Library	Library				X		X			X	X	X				
Town & Country Commons	Library	X			X		X	X	X	X	X	X			X	X
University Community Library (Under Const)	Library				X		X									
AVALET TECHNOLOGY	Medical				X		X									
ADVENTHEALTH TAMPA	Medical															
BRANDON REGIONAL HOSPITAL	Medical				X											
SOUTH BAY HOSPITAL...	Medical						X									
ST JOSEPHS HOSPITAL - NORTH EMERGENCY CENTER	Medical	X			X		X									
TAMPA COMMUNITY HOSPITAL	Medical	X			X		X	X	X	X	X	X				X
ALL CHILDREN SPECIALTY CARE OF TAMPA	Medical				X											
ADVENTHEALTH CARROLLWOOD	Medical				X		X									
DME & PHARMACY-SILO BEND LIFE PATH HOSPICE	Medical				X						X	X				
ST JOSEPH'S HOSPITAL - SOUTH	Medical															

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
RESPITEK INC	Medical						X									
JAMES A HALEY VETERAN'S ADMINISTRATION MEDICAL CTR	Medical	X			X											
TAMPA GENERAL HOSPITAL - BRANDON HEALTHPLEX	Medical				X						X	X				
LIFE PATH HOSPICE	Special Populations						X									
BRIGHTON GARDENS	Special Populations				X		X									
BRANDON HEALTH AND REHABILITATION CENTER	Special Populations				X		X									
CONSULATE HEALTH CARE OF BRANDON	Special Populations				X		X									
EXCEL REHAB AND NURSING CARE	Special Populations	X			X		X									
FAIRWAY OAKS CENTER	Special Populations						X									
FLETCHER HEALTH & REHAB CENTER	Special Populations				X		X									
HAWTHORNE HEALTH AND REHABILITATION CENTER	Special Populations				X											
MANOR CARE	Special Populations				X		X									
PALM GARDEN OF SUN CITY	Special Populations						X									
PALM GARDEN OF TAMPA	Special Populations						X									
WOODBIDGE NURSING & REHABILITATION CENTER	Special Populations	X			X	X		X	X	X	X	X				X
NURSING CENTER AT THE UNIVERSITY VILLAGE	Special Populations	X			X	X	X									
NU VISTA LIVING @ HILLSBOROUGH LAKES	Special Populations				X		X									
SUN TOWERS	Special Populations															
CONCORDIA VILLAGE OF TAMPA	Special Populations	X														

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
BRISTOL AT TAMPA REHABILITATION AND NURSING CENTER LLC*	Special Populations				X		X									
CENTRAL PARK HEALTHCARE AND REHABILITATION CENTER	Special Populations				X		X									
TAMPA LAKES HEALTH AND REHABILITATION CENTER	Special Populations				X											
PART OF INTERNATIONAL AIRPORT	Transportation				X					X	X	X				
PUMP STATION	Water/Wastewater				X											
CLUBHOUSE SUPER	Water/Wastewater						X									
NORTHWEST HILLSBOROUGH WELLFIELD-05	Water/Wastewater				X		X					X				
NORTHWEST HILLSBOROUGH WELLFIELD-03	Water/Wastewater				X		X					X				
COUNTRY WAY #2 MASTER	Water/Wastewater				X		X	X	X	X	X	X				
FAIRWAY BLVD	Water/Wastewater	X					X	X	X	X	X	X			X	X
GOLF CREST TERRACE	Water/Wastewater				X		X									
CLAY AVENUE SUPER	Water/Wastewater				X		X									
DEL WEBB	Water/Wastewater						X									
GUNLOCK	Water/Wastewater				X	X	X					X				
BAY CREST	Water/Wastewater	X			X			X	X	X	X	X		X	X	X
WEST CHELSEA	Water/Wastewater	X			X		X	X	X	X	X	X			X	X
CHERRYSTONE	Water/Wastewater	X					X	X	X	X	X	X			X	X
CLAY PIT	Water/Wastewater				X		X									
CLIFTON	Water/Wastewater	X			X		X		X	X	X	X				
COLLEGE AVENUE	Water/Wastewater	X					X	X	X	X	X	X				X
DAWNVIEW MASTER	Water/Wastewater				X											
EAGLE	Water/Wastewater	X					X	X	X	X	X	X		X	X	X
SWINDON	Water/Wastewater	X			X		X	X	X	X	X	X			X	X

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
FLORIDA CIRCLE WEST	Water/Wastewater	X					X	X	X	X	X	X			X	X
GOLF & SEA #3	Water/Wastewater	X					X	X	X	X	X	X			X	X
GOLF & SEA #4	Water/Wastewater	X					X	X	X	X	X	X			X	X
MILLER MAC SUPER	Water/Wastewater	X					X	X	X	X	X	X				
HENRY STREET #2	Water/Wastewater	X			X	X			X	X	X	X				
KNOLL RIDGE	Water/Wastewater				X		X									
NATURES WAY #3	Water/Wastewater				X											
ROYAL ABERDEEN	Water/Wastewater				X		X				X	X				
EAGLES ENTRY #1	Water/Wastewater				X					X	X	X				
TAMPA HILLSBOROUGH INTERCONNECT BOOSTER STATION	Water/Wastewater				X		X									
NORTHDALE/SHILLINGTON	Water/Wastewater				X		X									
NORTHDALE/SUMMERDALE	Water/Wastewater				X		X									
OAKFIELD #1	Water/Wastewater				X		X					X				
EAGLE PALM #1	Water/Wastewater	X			X		X	X	X	X	X					
WEBB	Water/Wastewater	X			X		X	X	X	X	X	X			X	X
MARSTON	Water/Wastewater	X					X	X	X	X	X	X			X	X
TEMPLE TERRACE HARNEY METER	Water/Wastewater				X		X				X	X				
78TH STREET MASTER	Water/Wastewater	X			X				X	X	X	X				
SEA GRAPE	Water/Wastewater	X						X	X	X	X	X			X	X
CALUSA TRACE #1	Water/Wastewater				X		X									
CHEMILLE #1	Water/Wastewater				X		X									
CHEVAL #2 NORTH	Water/Wastewater				X		X									
AVENUE AVIGNON MASTER	Water/Wastewater				X		X									
TPC	Water/Wastewater				X		X									
KINGSTON HEIGHTS	Water/Wastewater				X		X			X	X	X				
INTERSTATE BUS PK	Water/Wastewater				X						X	X				
COMANCHE MASTER	Water/Wastewater	X			X		X		X	X	X	X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
COUNTRY LAKE	Water/Wastewater				X		X									
CRYING WIND	Water/Wastewater				X		X									
CULBREATH #2	Water/Wastewater				X		X					X				
GRAINARY	Water/Wastewater	X			X		X									
AVILA	Water/Wastewater				X		X									
HANDY #1	Water/Wastewater				X											
HANLEY #2	Water/Wastewater				X		X				X	X				
HUDSON	Water/Wastewater				X	X	X									
INNERGARY	Water/Wastewater	X			X		X									
KINGS AVE MASTER	Water/Wastewater				X		X					X				
PROVIDENCE LAKES #2	Water/Wastewater				X		X					X				
LAKE CARROLL	Water/Wastewater				X		X									
PUMP STATION #15	Water/Wastewater				X		X									
MITCHELL SUPER	Water/Wastewater				X		X									
NORTHDALE/TRASKWOOD	Water/Wastewater				X		X									
NW CLASS A SLUDGE PROCESSING FACILITY PS	Water/Wastewater				X						X	X				
OLD GROVE	Water/Wastewater				X		X									
NATURES WAY #2	Water/Wastewater				X	X	X									
NATURES WAY SUPER	Water/Wastewater	X			X		X									
RUSTIC	Water/Wastewater				X		X			X	X	X				
STALL ROAD MASTER	Water/Wastewater				X		X									
TOWN N COUNTRY SWIM	Water/Wastewater	X			X		X	X	X	X	X	X			X	X
VAN DYKE FARMS	Water/Wastewater				X											
REFLECTIONS #1	Water/Wastewater				X											
WEST LAKE	Water/Wastewater						X									
WINCHESTER	Water/Wastewater				X		X									
WINDHORST #1	Water/Wastewater	X			X	X	X					X				

APPENDIX B – RISK ASSESSMENT TABLES

2020 LMS

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
FALKENBURG PLANT LS	Water/Wastewater				X											
NW REGIONAL WASTEWATER TREATMENT PLANT	Water/Wastewater				X						X	X				
LAKE PARK	Water/Wastewater				X		X									
LITHIA WASTEWATER - TREATMENT PLANT	Water/Wastewater				X		X									
FAWNRIDGE PLANT	Water/Wastewater				X		X				X	X				
VALRICO WASTEWATER PLANT	Water/Wastewater				X		X									
VAN DYKE WASTEWATER TREATMENT SLUDGE	Water/Wastewater				X		X									
SOUTH COUNTY WASTEWATER TREATMENT PLANT	Water/Wastewater															
CARROLLWOOD #1	Water/Wastewater				X		X									
DELWOOD SUPER	Water/Wastewater				X		X									
FAIRWAY MEADOW #1	Water/Wastewater						X									
S-162 DAM	Water/Wastewater	X			X		X							X	X	X
S-159 DAM	Water/Wastewater	X			X		X					X		X	X	X
S-155 DAM	Water/Wastewater	X														
ST. PETERSBURG COSME WATER TREATMENT PLANT	Water/Wastewater				X		X									
DESALINATION PLANT	Water/Wastewater	X			X			X	X	X	X	X				
TAMPA BYPASS CANAL PUMP STATION	Water/Wastewater				X		X			X	X	X				
NORTHWEST HILLSBOROUGH WELLFIELD-04	Water/Wastewater	X			X							X				
NORTHWEST HILLSBOROUGH WELLFIELD-01	Water/Wastewater				X		X				X	X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
NORTHWEST HILLSBOROUGH WELLFIELD-02	Water/Wastewater				X							X				
SOUTH CENTRAL REGIONAL - WELL HOUSE #10	Water/Wastewater				X											
CONE RANCH-WELLFIELD #8	Water/Wastewater	X														
NORTHWEST HILLSBOROUGH WELLFIELD-06	Water/Wastewater				X		X					X				
LACEWOOD	Water/Wastewater				X		X									
TAMPA BAY WATER WELL HOUSE # 3	Water/Wastewater				X		X									
PLANTATION #1 MASTER SECTION 21-09	Water/Wastewater				X		X									
LITHIA PINECREST #2	Water/Wastewater	X			X		X					X				
DUNCAN BOOSTER MASTER	Water/Wastewater				X		X									
BIG BEND EAST MASTER	Water/Wastewater	X					X									
LAKESWOOD	Water/Wastewater				X		X					X				
QUEEN PALM #1	Water/Wastewater				X							X				
TAMPA WEST	Water/Wastewater				X	X					X	X				
SAVARESE	Water/Wastewater				X						X	X				
FOREST LANE	Water/Wastewater				X		X									
MIRABAY #2	Water/Wastewater	X					X	X	X	X	X	X			X	X
SONSOLES DE AVILA	Water/Wastewater				X											
TANGLEWOOD	Water/Wastewater	X			X		X	X	X	X	X	X			X	X
HAMILTON #1	Water/Wastewater				X		X					X				
DEAUVILLE DR	Water/Wastewater				X					X	X	X				
LENTZ MASTER	Water/Wastewater				X		X									
PARSONS MASTER	Water/Wastewater				X		X									
EHRlich RD	Water/Wastewater				X		X									
LOGAN GATE	Water/Wastewater				X		X					X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
FISHHAWK BLVD	Water/Wastewater				X		X									
FLINT CREEK DAM	Water/Wastewater	X			X	X	X									
LAKE STEMPER	Water/Wastewater				X		X									
KEYSTONE LAKE	Water/Wastewater	X			X		X									
SWFWMD CRESCENT LAKE	Water/Wastewater	X			X	X	X									
ISLAND FORD LAKE	Water/Wastewater	X			X	X										
LAKE PRETTY	Water/Wastewater	X			X	X	X									
MAGDALENE STRUCTURE	Water/Wastewater	X			X											
BAY LAKES	Water/Wastewater				X		X									
WHITE TROUT LAKE	Water/Wastewater				X		X					X				
CHANNEL A DAM	Water/Wastewater	X			X		X	X					X	X	X	X
CHANNEL G DAM	Water/Wastewater	X			X		X	X	X	X	X	X	X	X	X	X
SADDLEBACK LAKE	Water/Wastewater				X		X									
LAKE HANNA	Water/Wastewater				X		X									
SWFWMD KEENE LAKE #1	Water/Wastewater				X	X										
KEENE #3	Water/Wastewater				X		X									
MEDARD RESERVOIR	Water/Wastewater	X			X											
LAKE ELAINE	Water/Wastewater				X		X									
LAKE CARROLL	Water/Wastewater	X			X		X									
TROUT CREEK S-163	Water/Wastewater	X			X							X				
KEENE LAKE #2	Water/Wastewater				X	X	X									
LOWER S-159	Water/Wastewater	X			X		X							X	X	X
LAKE KELL	Water/Wastewater	X			X		X									
SHERRY BROCK	Water/Wastewater	X			X		X									
LAKE CHARLES	Water/Wastewater				X		X									
LAKE PLATT	Water/Wastewater				X		X									
WOODLAKE	Water/Wastewater				X		X		X	X	X	X				
SUMMER COVE	Water/Wastewater	X			X		X									

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
ERINDALE	Water/Wastewater				X		X									
COLONIAL LAKE #1	Water/Wastewater				X		X				X	X				
BELL SHOALS	Water/Wastewater				X		X									
DONNEYSMOOR	Water/Wastewater				X											
79TH STREET	Water/Wastewater				X		X		X	X	X	X				
LIMONA #2	Water/Wastewater				X		X									
RACE TRACK #1	Water/Wastewater				X		X		X	X	X	X				
SEMINOLE SKY	Water/Wastewater	X					X		X	X	X	X				X
BENJAMIN	Water/Wastewater	X			X					X	X	X				
LAKE VISTA #1	Water/Wastewater						X			X	X	X				
SEABOARD AT S 82ND ST	Water/Wastewater				X		X			X	X	X				
NICKLAUS	Water/Wastewater				X		X									
LAUREL COVE	Water/Wastewater				X		X									
GRETNA GREEN #1	Water/Wastewater				X		X			X	X	X				
AVOCETRIDGE	Water/Wastewater				X											
WINN ARTHUR	Water/Wastewater				X		X									
FALKENBURG #2	Water/Wastewater	X			X		X			X	X	X				
WILLIAMS RD	Water/Wastewater				X		X									
FLAMINGO	Water/Wastewater	X					X	X	X	X	X	X			X	X
PINEDALE	Water/Wastewater				X	X	X				X	X				
FISHHAWK CROSSING	Water/Wastewater				X		X									
BRIDGEPARK	Water/Wastewater				X		X									
MUIRFIELD	Water/Wastewater	X			X		X				X	X				
WHEELER RD #2	Water/Wastewater				X		X									
BRIGANTINE	Water/Wastewater	X			X		X	X	X	X	X	X			X	X
MULRENNAN #3	Water/Wastewater				X		X									
SALTWATER	Water/Wastewater	X					X	X	X	X	X	X			X	X
SOUTH NINE	Water/Wastewater				X		X									

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
WOODBERRY #1	Water/Wastewater				X		X									
BRANDON TOWN CTR #1	Water/Wastewater				X	X						X				
PEACH PALM	Water/Wastewater	X			X						X	X				
FLORIDA MINING	Water/Wastewater				X						X	X				
FARMINGTON	Water/Wastewater				X		X					X				
GANGPLANK	Water/Wastewater				X		X									
YORK DALE	Water/Wastewater	X					X	X	X	X	X	X				X
VALENCIA LAKES #1	Water/Wastewater															
MONTEREY #1	Water/Wastewater				X		X					X				
BLAZING STAR	Water/Wastewater				X		X				X	X				
AVELAR RIDGE	Water/Wastewater						X									
KINGS BLVD #1	Water/Wastewater						X									
STAGHORN #1	Water/Wastewater				X											
LEEWARD	Water/Wastewater				X		X				X	X				
BRIARDALE	Water/Wastewater				X											
CASA LAGO	Water/Wastewater				X		X				X	X				
EXPOSITION	Water/Wastewater				X						X	X				
BERKFORD	Water/Wastewater				X		X									
TUDOR CHASE	Water/Wastewater				X						X	X				
VILLEMAIRE	Water/Wastewater	X					X	X	X	X	X	X			X	X
MERIDIAN POINT #2	Water/Wastewater				X		X				X	X				
PEKING PLACE	Water/Wastewater				X		X									
MOOK STREET	Water/Wastewater	X			X		X									
COVINGTON GARDEN #1	Water/Wastewater						X									
HENDERSON #2	Water/Wastewater				X	X	X					X				
MERLOT CIRCLE	Water/Wastewater				X		X				X	X				
BROADWAY CENTER	Water/Wastewater	X			X	X						X				
CAMDEN WOODS	Water/Wastewater				X		X		X	X	X	X				

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
PARKSET DRIVE	Water/Wastewater				X		X									
HERITAGE HARBOR #2	Water/Wastewater				X		X									
LAKESHORE	Water/Wastewater				X		X									
PARRILLA DE AVILA	Water/Wastewater				X		X									
AYERSWORTH GLEN	Water/Wastewater						X									
CHADSWORTH	Water/Wastewater				X		X									
CENTRAL HILLSBOROUGH WATER TREATMENT PLANT	Water/Wastewater				X		X					X				
CORAL SPRINGS	Water/Wastewater															
MATHOG #1	Water/Wastewater				X		X					X				
BIG BEND WEST MASTER	Water/Wastewater															
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-02	Water/Wastewater				X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-03	Water/Wastewater				X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-05	Water/Wastewater	X			X											
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-06	Water/Wastewater				X											
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-07	Water/Wastewater				X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-08	Water/Wastewater	X			X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-11	Water/Wastewater				X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-13	Water/Wastewater	X			X											

APPENDIX B – RISK ASSESSMENT TABLES

2020 LMS

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-14	Water/Wastewater				X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-15	Water/Wastewater				X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-16	Water/Wastewater				X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-17	Water/Wastewater						X									
CYPRESS BRIDGE WELLFIELD-CYB-08	Water/Wastewater						X									
NORTH BLVD	Water/Wastewater				X		X									
CRYSTAL LAKE WELL NO.1 AND 2	Water/Wastewater				X											
BYPASS CANAL LOWER POOL	Water/Wastewater				X		X				X	X				
AMBLESIDE #3	Water/Wastewater															
WOODBERRY SUPER	Water/Wastewater				X							X				
LAKEVIEW	Water/Wastewater				X	X	X									
FOX HEARST	Water/Wastewater						X									
PEBBLE CREEK	Water/Wastewater						X									
MLK #2	Water/Wastewater				X		X				X	X				
ORIENT RD	Water/Wastewater				X	X	X				X	X				
REGIONAL HIGH SERVICE PUMP STATION	Water/Wastewater				X						X	X				
REGIONAL FACILITIES SITE - TREATMENT PLANT	Water/Wastewater															
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-04	Water/Wastewater				X		X									
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-09	Water/Wastewater				X		X									

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
SOUTH CENTRAL HILLSBOROUGH REGIONAL WELLFIELD-12	Water/Wastewater				X		X									
LAKE BRIDGE WATER TREATMENT PLANT - PUMP STATION	Water/Wastewater						X									
SECTION 21-05	Water/Wastewater				X		X									
SECTION 21-06	Water/Wastewater				X		X									
SECTION 21-08	Water/Wastewater				X		X									
SECTION 21-10	Water/Wastewater				X		X									
MBR-WELLFIELD-150	Water/Wastewater						X									
MBR-WELLFIELD -151	Water/Wastewater						X									
MBR-WELLFIELD -152	Water/Wastewater															
MBR-WELLFIELD -153	Water/Wastewater	X														
MBR-WELLFIELD-154	Water/Wastewater															
MBR-WELLFIELD-155	Water/Wastewater															
MBR-WELLFIELD-156	Water/Wastewater	X														
MBR-WELLFIELD-157	Water/Wastewater	X					X									
MBR-WELLFIELD-158	Water/Wastewater	X														
MBR-WELLFIELD-159	Water/Wastewater															
MBR-WELLFIELD-160	Water/Wastewater	X														
MBR-WELLFIELD-161	Water/Wastewater	X														
MBR-WELLFIELD-162	Water/Wastewater	X														
MBR-WELLFIELD-163	Water/Wastewater	X														
MBR-WELLFIELD-164	Water/Wastewater	X														
MBR-WELLFIELD-165	Water/Wastewater	X														
MBR-WELLFIELD-166	Water/Wastewater	X														
MBR-WELLFIELD-167	Water/Wastewater	X														
MBR-WELLFIELD-168	Water/Wastewater	X														
MBR-WELLFIELD-169	Water/Wastewater	X														

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
CYPRESS BRIDGE WELLFIELD-CYB-09	Water/Wastewater						X									
CYPRESS BRIDGE WELLFIELD-CYB-10	Water/Wastewater						X									
CYPRESS BRIDGE WELLFIELD-CYB-11	Water/Wastewater				X		X									
ELDRIDGE WILDE WELLFIELD-ELW-135	Water/Wastewater				X											
ELDRIDGE WILDE WELLFIELD-ELW-137	Water/Wastewater	X			X											
ELDRIDGE WILDE WELLFIELD-ELW-138	Water/Wastewater				X											
ELDRIDGE WILDE WELLFIELD-ELW-139	Water/Wastewater				X											
ELDRIDGE WILDE WELLFIELD-ELW-141	Water/Wastewater				X											
ELDRIDGE WILDE WELLFIELD-ELW-142	Water/Wastewater				X											
TAMPA BAY WATER - VEOLIA	Water/Wastewater				X							X				
FLATWOODS PARK TRAIL	Water/Wastewater						X									
KELLER WATER TREATMENT PLANT-ELW-131	Water/Wastewater															
KELLER WATER TREATMENT PLANT-ELW-134	Water/Wastewater				X											
SECTION 21-02	Water/Wastewater				X		X									
ELDRIDGE WILDE WELLFIELD - ELW-136	Water/Wastewater	X			X											
ELDRIDGE WILDE WELLFIELD-ELW-140	Water/Wastewater	X			X											
PEBBLE CREEK	Water/Wastewater					X	X									
HERSHEL HEIGHTS COT	Water/Wastewater				X						X	X				
HERSHEL HEIGHTS COT	Water/Wastewater						X					X				
SEABOARD AT S US HWY 301	Water/Wastewater				X							X				
78TH INTERCONNECTS	Water/Wastewater				X		X			X	X	X				
SEABOARD AT S 70TH ST	Water/Wastewater				X		X			X	X	X				
JEFFERSON RD	Water/Wastewater				X		X									
OLD US HWY 41-A	Water/Wastewater	X			X			X	X	X	X	X			X	X
OAKVIEW ESTATES	Water/Wastewater				X		X									

Name	Type	Flood 100-yr	Flood 500-yr	Flood VE	Sinkhole Area III	Muck Soil	WUIRI -5	SS Cat 1	SS Cat 2	SS Cat 3	SS Cat 4	SS Cat 5	SLR 1 ft	SLR 4 ft	SLR 7 ft	SLR 10 ft
SEABOARD AT S 70TH ST	Water/Wastewater				X		X			X	X	X				
EAST LAKE	Water/Wastewater				X		X					X				
TRONCIAS	Water/Wastewater				X		X									
SOUTH COUNTY	Water/Wastewater															

APPENDIX C – ADDITIONAL NATURAL HAZARD PLANNING DOCUMENTS

This appendix includes links to additional natural hazard planning documents that are related to the LMS and were either updated or completed during 2015-2020 time period. Additionally, several related projects were ongoing during the 5-year update. Information from these plans and projects was either directly incorporated, if applicable, or discussed/presented to the LMS Working Group during one of their regular meetings for consideration how any specific aspects of the project should be integrated.

1. Floodplain Management Plan (2010)
<https://www.hillsboroughcounty.org/library/hillsborough/media-center/documents/public-works/natural-hazard-planning/071-floodplain-management-plan.pdf>
2. Community Wildfire Protection Plan (2016)
<https://www.hillsboroughcounty.org/library/hillsborough/media-center/documents/public-works/natural-hazard-planning/073-community-wildfire-protection-plan-2016.pdf>
3. Resilient Tampa Bay Transportation (2019)
<http://www.tbrpc.org/resilient-tampa-bay/>
4. Recommended Projections of Sea Level Rise in the Tampa Bay Region; Climate Science Advisory Panel (2019)
http://www.tbrpc.org/wp-content/uploads/2019/08/CSAP_SLR_Recommendation_2019_Final-1.pdf
5. Community Vulnerability Study (2019)
<http://www.planhillsborough.org/hillsborough-county-community-vulnerability-study/>

APPENDIX D – MITIGATION PROJECTS

Local Hazard Mitigation Plan Requirements
C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? [44 CFR §201.6(c)(3)(ii)] and [44 CFR §201.6(c)(3)(iv)]
C5. Does the Plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review), implemented, and administered by each jurisdiction? [44 CFR §201.6(c)(3)(iii)] and [44 CFR §201.6(c)(3)(iv)]
D2. Was the plan revised to reflect progress in local mitigation efforts? [44 CFR 201.6(d)(3)]
D3. Was the plan revised to reflect changes in priorities? [44 CFR 201.6(d)(3)]

This appendix includes the LMS Project List for Hillsborough County and its municipalities. During the 2020 LMS Update, all stakeholders were asked to update the status of existing projects to either active or archived. Active projects all have an estimated implementation date and status, and archived projects were either completed, deleted, or are unknown and have an explanation as to what has changed. New projects were self-scored by the applicant, then reviewed by the LMS WG’s scoring committee, and then presented to the LMS WG to provide any clarification on details before being accepted by the group. There are two tables per each jurisdiction below: (1) Active Projects (the new or deferred projects) and (2) Archived Projects (those projects that are completed, deleted, or unknown).

There are additional Archived Projects for Hillsborough County that are considered dormant projects. These projects have not been worked on due to resource constraints and the status is unknown. However, if the LMS WG decides to add these projects at a later date, they could become active again after going through the LMS review process.

Table D.1: Hillsborough County Active Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
1	56 th Street Flood Control and Water Quality Improvements; Installing a 2 nd outfall to the Hillsborough River, a smart box and detention ponds.	Flood	High	Goal 2.4	Hillsborough County Public Works	FEMA HMGP; County budget; State funds	\$2,550,000	2024	New. A contractor was selected to begin the PD&E.
2	Town 'N' Country/Hillsborough Ave Regional Drainage Improvement Project: Design of regional stormwater improvements to serve an area in the Lower Sweetwater Creek Watershed.	Flood	High	Goal 4.1	Hillsborough County Stormwater Services Section	County CIP; FEMA grants; State funds	\$45,000,000	2024	Currently, this project is in Phase 1 of the design and will begin the construction phases 2 & 3 once the design is approved and permitted.
3	Langston Park Regional Drainage Improvement:	Flood	High	Goal 4.1	Hillsborough County Stormwater Services Section	County CIP; FEMA grants; State funds	\$1.5 million	2022	Currently, PD&E is complete, and it will move to the design phase this year.

Color Legend	Project Active
	Project Completed
	Project Deleted

Table D.2: Hillsborough County Archived Mitigation Projects

Proj /Obj #	Objective	Rank	Name of Project	Description of Project	Hazards Mitigated	Funding Source	Jurisdiction Location	Agency Responsible for Implementation	Estimated Costs	Status	Change Status	Timeframe for Completion	N, E, C, D	Last Updated
1.1	1	Low	Neighborhood Information Program	Program to be further developed. Work with various Neighborhood Liaisons in providing information and promoting private sector involvement in completing mitigation projects.	All Hazards	Homeland Security Grant Program Grants-CERT & Citizen Corps, CO Funds	CW	Neigh. Relations/OEM/PW	N/A	Active	No Change	>12 months	E	12/10/2014
2.1	1	Low	Retrofit and/or Acquisition Existing Structures		All Hazards	Flood Mitigation Assistance and Hazard Mitigation Grant Program	CW	Hazard Mitigation (HazMit), Property Owners	N/A	Active	No Change	>12 months	E	12/10/2014
3.1	1	Low	Hazard Mitigation Education Program	Provide residents and business owners with current information on methods and procedures for completing retrofits and in protecting themselves against potential disasters. Measures include: brochures and Hazard Mitigation Web Page .	All Hazards	CO Funds, SWFWMD FLASH	CW	Local Mitigation Strategy W.G.	N/A	Active	No Change	>12 months	E	12/10/2014
5.1	1	Low	Hazard Mitigation Website Development	Review of planning and implementation procedures	All Hazards	CO HazMit Funds	CW	Hazard Mitigation	N/A	Active	No Change	>12 months	E	12/10/2014
7.1	1	Low	Private Sector Coordination	Currently being strengthened through County OEM and Hazard Mitigation Sections. Ensure representatives from MacDill Air Force Base, Port of Tampa, Westshore Business Alliance, Tampa Downtown Partnership, Greater Tampa Chamber of Commerce, Ybor City Chamber, come together to cooperate.	All Hazards	County Funds	CW	OEM	N/A	Active	No Change	>12 months	E	12/10/2014
8	2	Low	Costs and Benefits of Community Resiliency (includes Sea Level Rise Adaptation) Strategies	Use existing tools and create new data to evaluate the vulnerability, impacts and economic costs of sea level rise for the Tampa Bay area under different sea level rise scenarios, as well as to provide adptation options for the region.	All Hazards	FEMA/NOAA/FHWA	CW	Public Works/MPO/USF	Unkown	In Progress	No Change	>12 months	E	12/10/2013

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8.1	2	Low	A Spatial-Temporal Econometric Model to Estimate Costs and Benefits of Adaptation Strategies to mitigate areas of vulnerability to the County, which will update the LMS.	Use existing NOAA tool to evaluate the vulnerability, impacts and economic costs of sea level rise for the Tampa Bay area under different sea level rise scenarios, as well as to provide adptation options for the region.	Sea-Level Rise Flood	Florida Sea Grant	CW	Dept. of Urban & Regional Planning, University of Florida	\$300,000	Current	No Change	>12 months	N	12/10/2013
8.2	2	Low	Stormsurge Chemical Contamination Study	Utilize Phase I Study of impacts from a stormsurge event; and, determine effective mitigation measures for structures and chronic or acute impacts to persons and the environment.	Floods	DHS Issue Grants	CW	Hazard Mitigation and the Office of Emergency Management	\$120,000	Phase 1 Complete - Phase 2 In Process	No Change	>12 months	E	12/10/2013
8.3	2	Low	Floodplain Management Plan Update	Review of planning and implementation procedures (5-year Update Floodplain Management Plan)	Flooding	Flood Mitigation Assistance and Hazard Mitigation Grant Program	CO	Local Mitigation Strategy W.G./Neighborhood Relations, OEM, Plan. Comm.	\$33,300	In process	No Change	>12 months	E	12/10/2014
104.3	3	Low	Comprehensive Plan Update/Implementation	Review of planning and implementation procedures (and plans) to for all-hazards .	N/A	ST, SRF, FMA, HMGP, NPS, WP&FPP	CW	Plan Comm LMS WG/ Neighborhood Relations, OEM	N/A	active	No Change	>12 mos	E	12/10/2014
105.3	3	Low	Neighborhood Plans	Review of planning and implementation procedures.	All Hazards	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	PW/HazMits and Plan. Comm.	N/A	active	No Change	>12 mos	E	12/10/2014
106.1	3	Low	US 301 - Park Drive Area Stormwater Retrofit	Route 'first flush' untreated stormwater to an existing depressionnal marsh for treatment. WQ 1.5 ACRE/FT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$268,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
106.2	3	Low	Shadow Run Inlet Plugging	Fill existing inlets [which trap organic material] along abandoned roadway on Hillsborough owned site.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$5,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
106.3	3	Low	English Creek Surface Water Treatment Area - Site 2	Divert water from English Creek tributary into a treatment area consisting of a sump, open water, and marshes. WQ 12 ACRE/FT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,539,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
106.4	3	Low	Lightfoot Road Stormwater Restoration	Regrading and replanting streambank. Support invasive species removal and agricultural BMPs. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,150,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012

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106.5	3	Low	West of 24th Street Restoration	Regrading and replanting streambank. Support invasive species removal and agricultural BMPs. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,639,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
106.6	3	Low	Hillsborough Below S-1-HRB A1	Replace invasive shoreline vegetation with native plants. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$487,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
106.7	3	Low	Two Hole Branch TWHA	Use ditch blocks to restore wetland hydroperiod for group of existing wetlands. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$599,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
106.8	3	Low	50th Street (South of Fletcher Ave) Wetland Improvements	Enhance existing wetland south of Fletcher Avenue. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,468,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
106.9	3	Low	North Side of USF Golf Course (Near 46th Street) Wetland Improvements	Enhance existing wetland at USF golf course. SOME WQ BENEFIT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,468,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107	3	Low	Bruce B. Downs (South Side near Bearss Ave) Wetland Improvements	Enhance existing wetland south of Bruce B. Downs Boulevard. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,468,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107.1	3	Low	Gibson Ave Wetland Improvement	Enhance existing wetland east of 56th Street. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,468,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107.2	3	Low	Hillsborough Below S-1 HRB A2	Some combination of increased detention, plantings, and/or chemical treatment in existing waterbody. Few details. UNKNOWN WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$471,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107.3	3	Low	Mango - MGA B	Shoreline acquisition [area recently developed] Also, include LaMP in Mango. MINIMAL WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$126,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107.4	3	Low	Shell Point Road	Reduce erosion and provide treatment for agricultural discharge to Little Manatee River at Shell Point Rd and 14th St SW. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	TBD	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107.5	3	Low	Eastside Canal - ECN A	Convert existing fish farm to offline 10-15 acre wet treatment facility adjacent to McIntosh Park. GOOD WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,225,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012

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107.6	3	Low	Eastside Canal - ECN B	Divert flow to borrow pit to create 15 acre pond. Also, create 2-5 acre marsh. SOME WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$883,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107.7	3	Low	Williams - WRA B	Divert flow to excavated area to create detention pond. GOOD WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,094,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107.8	3	Low	Williams - WRA A	Divert flow to treatment area. Convert existing fish farm to open water and littoral shelf area. GOOD WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$923,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
107.9	3	Low	Mango - MGA A (Mud Lake)	Mud Lake is the result of peat excavation. Regrade and plant. SOME WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$612,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108	3	Low	Falkenburg - FKA A	Install ditch blocks and excavate to increase existing wetland hydroperiod. MINIMAL WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,589,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108.1	3	Low	Gulf City Road Detention Pond	Construct 4 acre detention pond for water quality treatment. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,837,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108.2	3	Low	Lightfoot Road Erosion Control	Stabilize sandy levees with grading and revegetation. MINIMAL WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$14,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108.3	3	Low	Vandenburg - VBA A	Create offline detention pond. Few details. SOME WQ BENEFIT. NO TMDL.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,820,520	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108.4	3	Low	Two Hole Branch TWH2	Construct 10 acre STA and replace culverts. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$2,642,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108.5	3	Low	Two Hole Branch TWH1	Construct 7.5 acre STA for attenuation and replace culverts. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$2,163,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108.6	3	Low	Itchepackasassa - IPC B	Create large marsh and divert flow to existing pond. GOOD WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$2,021,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108.7	3	Low	Saffold Road and CR 579 Restoration	Regrade and replant streambank. Invasive species and agricultural BMP effort. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$2,575,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012

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108.8	3	Low	Clay Gully East - CGE 5	Create a 20 acre stormwater treatment and retention area. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$2,989,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
108.9	3	Low	Buckhorn Creek Pond and Wetland Restoration	Purchase 5 parcels and create 13.5 acre detention pond and wetlands. CONSIDERABLE WQ	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$4,008,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
109	3	Low	Turkey Creek Surface Water Treatment Area - Site 1	Divert water from Turkey Creek to a treatment marsh. WQ 28 ACRE/FT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$4,041,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
109.1	3	Low	Itchepackasassa - IPC C	Create large marsh in-line or off-line. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$4,800,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
109.2	3	Low	Blackwater - BLK 1 with Polk	Divert flow to a 30 to 50 acre treatment area, comprised of modifications to existing wetlands. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$5,351,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
109.3	3	Low	CR 579 to Grange Hall Stormwater Restoration	Regrading and replanting streambank. Support invasive species removal and agricultural BMPs. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$6,143,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
109.4	3	Low	Williams Property Land Acquisition and Habitat Restoration	Acquire/improve 90 acres for wildlife habitat. Contains three disturbed wetlands. Create shallow foraging pond for Ibis, and passive recreational/educational area. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$9,806,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
109.5	3	Low	Egypt Lake Treatment	Treatment for direct stormwater inputs from Habana Avenue and/or other before entering Egypt Lake.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)		Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
109.6	3	Low	John Moore Road Habitat Restoration and Preservation	Remove nuisance vegetation and plant native understory to reduce erosion and improve wildlife habitat. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$6,840,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
109.7	3	Low	CR 579 to Grange Hall Loop Erosion Control	Stabilize sandy levees with grading and revegetation. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$552,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
109.8	3	Low	Little Manatee River/Saffold Road Habitat Restoration	Regrading and replanting streambank. Support invasive species removal and agricultural BMPs. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$514,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012

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109.9	3	Low	Clay Gully East - CGE B	Install ditch block to increase hydroperiod of two existing wetlands. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,179,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
110	3	Low	Hollomans Branch - HBA 2	Expand existing 30 acre wetland to create 60 acre stormwater treatment area and culvert replacement. POSSIBLE WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,836,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
110.1	3	Low	Hollomans Branch - HBA B	Increase residence time in existing wetlands through inclusion of ditch blocks. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,843,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
110.2	3	Low	Hollomans Branch - HBA C	Divert flow to existing borrow pit for retention/treatment. Possibly regrade and plant. SOME/UNKNOWN WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$306,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
110.3	3	Low	Lake Cedar West Shoreline Revegetation	Replant west shoreline with aquatic plants to aid in shifting the tropic structure of the lake from a phytoplankton dominated system to an emergent/submerged aquatic plant dominated system.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$57,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
110.4	3	Low	Floral Avenue Channel Improvements	Regrade existing channel north of Floral Drive to Lakewood/Iris Avenue and restore/create wetland riparian habitat along the channel.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$334,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
110.5	3	Low	Lake Dorsett Stormwater Improvements	Implement stormwater treatment bmp's at strategic locations (existing inlets/junction boxes) and connect residences using septic tank systems to main sewer line.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$183,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
110.6	3	Low	March Branch North Tributary Detention Pond 2.2	Construct 2.5 acre detention pond to treat runoff in agricultural area. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,380,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
110.7	3	Low	March Branch North Tributary Detention Pond 2.1	Construct 1.5 acre pond to treat runoff from adjacent citrus grove. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,033,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012

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110.8	3	Low	American Eagle Boulevard/Cypress Creek Weir Alterations	Raise Cypress Creek control weir located approximately 1,000' west of the northern end of American Eagle Blvd. By 6" to create temporary storage for water quality treatment of the Caloosa Country Club Estates area north of Sun City Center.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$16,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
110.9	3	Low	Sundance Subdivision Improvements - Project 4-1-1	Acquire 100 acres and develop STA for canal discharge. Few details. UNKNOWN WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$910,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
111	3	Low	St. Andrews Detention Pond	Retrofit existing pond in golf course and create 4.6 acre pond. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,476,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
111.1	3	Low	Bell Creek Pond Improvements - Site 1	Replace existing riser with bleed-down structure to increase detention time and treatment volume. Create littoral shelf from dredge material. RETROFIT 27 ACRE/FT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$273,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
111.2	3	Low	Bell Creek Pond Improvements - Site 2	Install control structure, expand existing open water, and excavate upland areas to create shallow and deep marshes. RETROFIT 10 ACRE/FT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$367,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
111.3	3	Low	Triple Creek Ranch Habitat Restoration	Restore 1,100 acres [acquired former pasture] to provide habitat based on soils and historic aerals. Restore to pine flatwoods and hardwood hammocks. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,634,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
111.4	3	Low	English Creek Surface Water Treatment	Divert water from Howell Branch into a treatment area consisting of a sump, open water, and marshes. WQ 7.5 ACRE/FT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,643,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
111.5	3	Low	Turkey Creek Surface Water Treatment Area - Site 2	Divert water from Little Alafia River to a treatment marsh. WQ 2 ACRE/FT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$351,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
111.6	3	Low	Clay Gully East - CGE 4	Create a 20 acre stormwater treatment area with outfall on vacant land. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$2,633,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012

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111.7	3	Low	Clay Gully East - CGE A	Restore approx. 50 acres of wet pasture to herbaceous wetlands. GOOD WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$3,339,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
111.8	3	Low	Clay Gully East - CGE 6A	Create a 30 acre stormwater treatment and retention area. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$3,398,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
111.9	3	Low	Hollomans Branch - HBA D	Restore hydroperiod of impacted 40 acre wetland. MINIMAL WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,825,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
112	3	Low	Turkey Creek Surface Water Treatment Area - Site 3	Divert water from Little Alafia River into a treatment area of a sump, open water, and marshes. WQ 4 ACRE/FT	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$2,350,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
112.1	3	Low	Sundance Subdivision Improvements - Project 4-1-2	Develop stormwater wetland system in the portion of property used for agriculture and integrate it with the adjacent natural systems. Design system to provide stormwater treatment for flows equivalent to one inch from the S.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$6,258,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
112.2	3	Low	March Branch - Shell Point Road Stormwater Improvements - 3.2.2	Construct 15 acre detention pond to treat runoff in agricultural area. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$4,467,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
112.3	3	Low	Hollomans Branch - HBA E	Increase retention within impacted 90 acre wetland through use of ditch blocks/weirs. Possibly include planting. SOME WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$4,428,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
112.4	3	Low	Hollomans Branch - HBA A	Divert portion of flow to created wetland. Few details. GOOD WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$6,467,400	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
112.5	3	Low	Dug Creek Stormwater Pond	Aquire land and create 46 acre pond on disturbed area. GOOD WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$11,077,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
112.6	3	Low	One hundred acre Retention Pond	Construct retention pond to provide storage/water treatment. Uncertain whether design calls for 50 or 100 acre pond.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$16,644,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012

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112.7	3	Low	Sun City Center/Cypress Creek Regional Stormwater Facility	Acquire and develop as an off-line regional water quality treatment facility an 80 acre piece of land located on the west side of the Cypress Creek main channels south of Kings Blvd.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$30,391,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
112.8	3	Low	Alafia River Balm-Boyette Road Underpass	Construct culvert for wildlife underpass on two roadways near Balm-Boyette Scrub. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$90,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
112.9	3	Low	Ruskin Inlet / March Branch Exotic Species Removal	Invasive species removal and native planting. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$100,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
113	3	Low	Sun City Heritage Park Exotic Species Removal	Invasive species removal and native planting. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$183,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
113.1	3	Low	H4.3 - H4.6 Stormwater Improvements	Invasive species removal and native planting. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$264,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
113.2	3	Low	Redfish Nursery Expansion	Expand canal to increase size of redfish nursery. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$307,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
113.3	3	Low	Ruskin Commongood Exotic Species Removal	Invasive species removal and native planting. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$343,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
113.4	3	Low	Domino Road Boat Ramp Exotic Species Removal	Invasive species removal and native planting. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$403,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
113.5	3	Low	Wildcat Creek Park Stormwater Improvements	Invasive species removal and native planting. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$909,000	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
113.6	3	Low	Beaudette Park Stormwater Improvements	Invasive species removal and native planting. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,099,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
113.7	3	Low	Mango - MGA C	Invasive species removal and native planting in Williams Park. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$1,114,200	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012

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113.8	3	Low	Clay Gully East - CGE 3	Culvert replacement. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$2,278,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
113.9	3	Low	Clay Gully East - CGE 1	Culvert replacement. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$3,025,800	Unfunded CIP, projects are prioritized	No Change	>12 mos	E	11/1/2012
114	3	Low	Itchepackasassa - IPC A	Upland restoration of pasture. NO WQ BENEFIT.	Floods, Hurricanes, and Tropical Storms	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater (unfunded CIP)	\$5,988,600	Unfunded CIP, projects are prioritized	No Change	>12 mos	N	11/1/2012
115	3	Low	Acquisitions or Elevations of Repetitive Flood-Loss Structures	Work with property owners to elevate (or acquire) repetitive flood-loss structures.	Floods	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	Hazard Mitigation	\$175,000	In process	No Change	>12 mos	E	12/10/2013
115.1	3	Low	Dew Drop Lane	Repetitive Flood-Loss Structure	Floods	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	Hazard Mitigation and Housing	TDB	In process	No Change	>12 mos	E	12/10/2014
115.2	3	Low	Sonora Drive	Repetitive Flood-Loss Structure	Floods	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	Hazard Mitigation	TDB	In process	No Change	>12 mos	E	12/10/2014
115.3	3	Low	18th Street NW	Repetitive Flood-Loss Structure	Floods	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	Hazard Mitigation	\$158,205	In process	No Change	>12 mos	E	12/10/2014
116	3	Low	Neighborhood Stormwater Projects	Various neighborhood stormwater projects to mitigate flooding of structures or infrastructure	Floods	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater	UK	In process	No Change	>12 mos	E	12/1/2012
116.1	3	Low	Acquisition for Stormwater Mitigation	Neighborhood stormwater projects to mitigate flooding of structures or infrastructure	Floods	ST, SRF, FMA, HMGP, NPS, WP&FPP	CO	County Stormwater	UK	In review	No Change	> 12 mos	N	12/1/2012
118	3	Low	Hillsborough County Public Works: SCADA wastewater facilities	Public Utilities	Floods	CIT/State & Fed Grants	CO	Public Utilities Hazard Mitigation	TBD	In review	No Change	>12 months	N	12/10/2014
118.1	3	Low	SCADA Disaster Recovery	SCADA Disaster Recovery of Data for Stormwater Management	Floods	CIT/State & Fed Grants	CW	Public Works Hazard Mitigation	TBD	In review	No Change	>12 months	N	12/10/2014

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121.1	3	Low	Chipaway	Structure in 100-Year Floodplain	Floods	Hazard Mitigation Assistance Programs. Flood Mitigation Assistance Program, Severe Repetitive Loss Program, Hazard Mitigation Grant Program, potential partial assistance through CDBG, USDA, and/or Stormwater CIP (HMGP, FMA, SRL, CDGB, USDA, CIP)	CO	Hazard Mitigation	\$175,000	In process	No Change	>12 mos	N	12/10/2014
121.2	3	Low	Parkway Circle 2013	Repetitive Flood-Loss Structure	Floods	HMGP, FMA, SRL, CDGB, USDA, CIP	CO	Hazard Mitigation	\$166,950	In process	No Change	>12 mos	N	12/10/2014
121.3	3	Low	Parkway Circle 2015	Repetitive Flood-Loss Structure	Floods	HMGP, FMA, SRL, CDGB, USDA, CIP	CO	Hazard Mitigation	\$175,000	In process	No Change	>12 mos	N	12/10/2014
121.4	3	Low	Hermit Hollow	Repetitive Flood-Loss Structure	Floods	HMGP, FMA, SRL, CDGB, USDA, CIP	CO	Hazard Mitigation	\$175,000	In process	No Change	>12 mos	N	12/10/2014
121.5	3	Low	Bayview	Repetitive Flood-Loss Structure	Floods	HMGP, FMA, SRL, CDGB, USDA, CIP	CO	Hazard Mitigation	\$175,000	In process	No Change	>12 mos	N	12/10/2014
121.6	3	Low	Maydell Drive	Historic Structure and Repetitive Loss	Floods	HMGP, FMA, SRL, CDGB, USDA, CIP	CO	Hazard Mitigation and Historic Preservation	\$175,000	In process	No Change	>12 mos	N	12/10/2014
121.7	3	Low	Shell Point Road	Repetitive Flood-Loss Structure	Floods	HMGP, FMA, SRL, CDGB, USDA, CIP	CO	Hazard Mitigation	\$175,000	In process	No Change	>12 mos	N	12/10/2014

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122.1	3	Low	Keysville Road Bridge #100275 Guardrail Repair	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	TBD	In Process	No Change	> 12 mos	N	12/10/2014
122.2	3	Low	George Road Over Henry Street Bridge #100521	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	TBD	In Process	No Change	> 12 mos	N	12/10/2014
122.3	3	Low	Fishhawk Blvd/Little Fishhawk Bridge #104363 Guardrail Note: Maybe Reimbursed From Driver's Insurance	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	\$3,065	In Process	No Change	> 12 mos	N	12/10/2014
122.4	3	Low	Keysville Road Bridge 104428 Guardrail	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	TBD	In Process	No Change	> 12 mos	N	12/10/2014
122.5	3	Low	36th Avenue Over Delaney Creek Bridge 104107	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	20,000	In Process	No Change	> 12 mos	N	12/10/2014
122.6	3	Low	Twin Branch Acres Over Double Cranch Creek Br 104249	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	2,587	In Process	No Change	> 12 mos	N	12/10/2014
122.7	3	Low	Grange Hall Road Over Little Manatee Bridge 104332	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	38,485	In Process	No Change	> 12 mos	N	12/10/2014
122.8	3	Low	CR 579 Over Little Manatee River Bridge 100260	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	65,955	In Process	No Change	> 12 mos	N	12/10/2014
122.9	3	Low	Lightfoot Road Over Branch Of Little Manatee Br 104309	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	13,848	In Process	No Change	> 12 mos	N	12/10/2014
122.10	3	Low	Valroy Road Bridge 104350	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	21,691	In Process	No Change	> 12 mos	N	12/10/2014
122.11	3	Low	Bonita Drive Over Dug Creek Bridge 104346	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	12,379	In Process	No Change	> 12 mos	N	12/10/2014
122.12	3	Low	Balm Riverview Rd./Rice Creek Bridge 104351	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	13,792	In Process	No Change	> 12 mos	N	12/10/2014
122.13	3	Low	Fishhawk Blvd./Fishhawk Creek Bridge 104362	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	20,056	In Process	No Change	> 12 mos	N	12/10/2014
122.14	3	Low	Lithia Pinecrest Rd./Herb's Ditch Bridge 100286	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	12,585	In Process	No Change	> 12 mos	N	12/10/2014
122.15	3	Low	Tobacco Rd./Rocky Creek Bridge 104299	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	6,275	In Process	No Change	> 12 mos	N	12/10/2014

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122.16	3	Low	Bishop Rd./Dug Creek Bridge 104308	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	40,616	In Process	No Change	> 12 mos	N	12/10/2014
122.17	3	Low	Upper Creek Dr./Cypress Creek Bridge 104357	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	34,997	In Process	No Change	> 12 mos	N	12/10/2014
122.18	3	Low	2nd. St. N.E./Ruskin Inlet Bridge 104317	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	4,572	In Process	No Change	> 12 mos	N	12/10/2014
122.19	3	Low	Big Bend Rd./Big Bend Drain Bridge 100270	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	67,776	In Process	No Change	> 12 mos	N	12/10/2014
122.20	3	Low	Saffold Rd./Dug Creek Bridge 104366	Mitigation against natural hazards, for example, scour remediation	Floods, Stormsurge	HMGP, FMA, SRL, CDGB, USDA, CIP	CW	County Public Works	177,610	In Process	No Change	> 12 mos	N	12/10/2014
122.21	3	Low	Tanglewood Lane MPI (46129-007) ID# MPI	Stormwater Planning	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$500,000	In Process	No Change	> 12 mos	N	4/29/2015
122.22	3	Low	Dimarco Road MPI (46129-005) ID# MPI	Stormwater Planning	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$250,000	In Process	No Change	> 12 mos	N	4/29/2015
122.23	3	Low	East College Avenue ID# 1	Construct offline ponds, Replace two 30-inch RCPs with 400 LF of 42-inch RCP, Install additional 5-foot-x-10-foot CBC under E College Ave.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$10,604,900	In Process	No Change	> 12 mos	N	4/29/2015
122.24	3	Low	Bell 1 Hobson Simmons Road Maintenance. ID# 2	Hillsborough County South Service Unit staff stated that flooding occurs along Hobson Simmons Road. Two cross culverts, one to the south and one to the north, drain this ditch.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$26,200	In Process	No Change	> 12 mos	N	4/29/2015
122.25	3	Low	Spencer Rd Drainage Improvement ID# 3	Upgrade Pipe. Brooker Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$12,600	In Process	No Change	> 12 mos	N	4/29/2015
122.26	3	Low	Beach Avenue Improvements ID# 4	Raise the roadbed a maximum of 6" and reconstruct 170' of roadway to elevate the driving surface out of the floodplain. Bullfrog Creek Area	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$68,400	In Process	No Change	> 12 mos	N	4/29/2015
122.27	3	Low	BUCK-4 Bloomingdale West Pond Outfall Retrofits. ID# 5	The Bloomingdale West Subdivision has two stormwater detention ponds whose outfall structures are overgrown and function is impaired.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$29,700	In Process	No Change	> 12 mos	N	4/29/2015

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122.28	3	Low	Archie Creek -78th St. Culvert Upgrade & Channel Improvement ID# 6	Replace the existing culvert located south of TSI building and north of Eagle Palm Drive with a structure of adequate size and length. Construct channel improvements as required both upstream and downstream of the new structure.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$68,400	In Process	No Change	> 12 mos	N	4/29/2015
122.29	3	Low	TC-4 Colson Road Drainage System Improvements ID# 7	Localized road flooding of Colson Road, east of the CSX Railroad crossing, has been reported by residents and cited by the Hillsborough County East Service Unit Staff.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$18,700	In Process	No Change	> 12 mos	N	4/29/2015
122.30	3	Low	BUCK-5 Lithia Oaks Pond Outfall Retrofit. ID# 8	The Lithia Oaks Subdivision detention pond that serves as the primary storage facility for this residential subdivision does not have a functional outfall structure.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$15,400	In Process	No Change	> 12 mos	N	4/29/2015
122.31	3	Low	SP-1George Smith Rd &Lithia Pinecrest Rd Maintenance ID# 9	The Hillsborough County East Service Unit staff expressed maintenance concerns for George Smith Road. Two culvert crossings at this location are extremely silted.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$27,100	In Process	No Change	> 12 mos	N	4/29/2015
122.32	3	Low	North Pebble Beach Boulevard and Brentwood Drive ID# 10	1. Connect the three existing ponds. 2. Install two golf cart bridges to replace existing golf cart pathways. 3. Install new outfall weir (100 feet long at crest 40.75 feet NAVD 88) to the Cypress Creek wetland system. 4. Install additional 4-foot x 12-foot CBC under West Del Webb Boulevard (implement Project 5).	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$280,200	In Process	No Change	> 12 mos	N	4/29/2015
122.33	3	Low	Bill Tucker Road Improvements ID# 11	Upgrade existing culvert under Bill Tucker Road to 36" RCP to provide adequate conveyance capacity. Bullfrog Creek Area	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$59,400	In Process	No Change	> 12 mos	N	4/29/2015

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122.34	3	Low	Van Dyke Road Flood Attenuation RB-9 ID# 12	A car accident due to street flooding occurred and was reported at the sag point in Van Dyke Rd E of Dale Mabry HWY. Additional flood storage upstream of van Dyke Rd 2acre, a 27" (eqv) ERCP replace the existing 24" (eqv) CMPA.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$335,900	In Process	No Change	> 12 mos	N	4/29/2015
122.35	3	Low	AR-9 Magnolia St. Local Drainage Improvements ID# 13	Local residents reported road flooding on Magnolia Street after heavy rainfall events. Also, a property owner indicated several feet of bank has eroded over the past few years where a	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$12,800	In Process	No Change	> 12 mos	N	4/29/2015
122.36	3	Low	AR-12 Lula St. Secondary Drainage System Imp. ID# 14	Lack of cross drain at low-lying area northeast of Lula Street and Anna Avenue intersection results in flooding of Lula Street and possible structure flooding.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$10,100	In Process	No Change	> 12 mos	N	4/29/2015
122.37	3	Low	West Del Webb Boulevard and Brookton Green Drive ID# 15	Install additional 4-foot-x-12-foot CBC 1. under West Del Webb Boulevard.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$162,600	In Process	No Change	> 12 mos	N	4/29/2015
122.38	3	Low	ENG-1 Futch Road Drainage Improvements. ID# 16	Homes on the south side of Futch Road occasionally experience yard and structure flooding. During extreme rainfall events, the	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$42,500	In Process	No Change	> 12 mos	N	4/29/2015
122.39	3	Low	BUCK-1&2 Barkfield St. &Huntington St. Drainage Imp. ID# 17	Barkfield Street experiences chronic flooding up to 2.0 feet deep in the street due to inadequate outfall capacity.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$220,200	In Process	No Change	> 12 mos	N	4/29/2015
122.40	3	Low	Delaney Creek - Lateral C Improvements ID# 18	Construct channel improvements to lateral C within Delaney Creek and upgrade structures at Tidewater Trail, Ridein Road and Rideout road. Delaney Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$3,130,200	In Process	No Change	> 12 mos	N	4/29/2015
122.41	3	Low	Lincoln Road Improvements ID# 19	Upgrade existing culverts under Lincoln Road with a 4' X 5' Box Culvert to provide adequate conveyance capacity. Bullfrog Creek Area	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$140,400	In Process	No Change	> 12 mos	N	4/29/2015
122.42	3	Low	County Road 579 ID# 20	Install 3-foot-x-7-foot CBC. Install two 4-foot-x-8-foot CBCs. Install 48-inch RCP. Install 34-inch-x-53-inch elliptical RCP. Install 6-foot-x 9-foot CBC. Install two 54-inch RCPs. Install two channel systems.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$10,462,100	In Process	No Change	> 12 mos	N	4/29/2015

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122.43	3	Low	Woodberry Road Drainage Improvements TBT-5A ID# 21	Construct an overflow weir between the two ponds to equalize the flood elevations in the ponds during larger storm events.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$87,100	In Process	No Change	> 12 mos	N	4/29/2015
122.44	3	Low	Gulf City Road ID# 22	Replace two 48-inch RCP with 1. 40 LF of 5-foot-x-8-foot CBC.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$112,300	In Process	No Change	> 12 mos	N	4/29/2015
122.45	3	Low	AR-8 Revels Road Secondary Drainage Improvements. ID# 23	Local residents reported street and property flooding at the Revels Road turn.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$63,700	In Process	No Change	> 12 mos	N	4/29/2015
122.46	3	Low	Country Club Drive Structures ID# 24	Construct twin box culverts and raise the road on Country Club Drive. Project within City of Tampa.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$444,600	In Process	No Change	> 12 mos	N	4/29/2015
122.47	3	Low	Rhodes Wood Acres ID# 25	Construct outfall structure & crossdrain of adequate size and length. Cypress Creek Area	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$66,600	In Process	No Change	> 12 mos	N	4/29/2015
122.48	3	Low	Walden Sheffield Road 48" Pipe Upgrade - BC02ALT1 ID# 26	Undersized two 54-inch CMPs at Walden Sheffield Road resulting in road overtopping.Replacement of the existing pipes with two 5-feet x 8-foot concrete box culverts.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$180,000	In Process	No Change	> 12 mos	N	4/29/2015
122.49	3	Low	APACHE DRIVE DRAINAGE IMPROVEMENTS HRUP-1A ID# 27	Flooding above FPLOS along this rural residential roadway located west of Morris Bridge Road and north of Branchton Church Road varies in average depth from 5 to 12 inches. Raise the road bed to elevation of 44.46 ft NAVD88.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$293,900	In Process	No Change	> 12 mos	N	4/29/2015
122.50	3	Low	Stephens Road ID# 28	Replace 41 LF of twin 54-inch 1. RCP with a 4-foot-x-8-foot CBC.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$189,500	In Process	No Change	> 12 mos	N	4/29/2015
122.51	3	Low	VALROY ROAD AND US 41 ID# 29	Replace 102 LF of 24-inch reinforced concrete 1. pipe (RCP) with 36-inch RCP. Acquire 0.77 acre of impacted property.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$68,100	In Process	No Change	> 12 mos	N	4/29/2015
122.52	3	Low	Slowpoke Lane Pipe Upgrade CB02ALT1 ID# 30	Undersized 24" RCP at Gallagher Road resulting in road overtopping of 1.2 feet at Slowpoke Lane. Installing an additional 36" RCP culvert next to the existing 24" RCP culvert	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$110,000	In Process	No Change	> 12 mos	N	4/29/2015
122.53	3	Low	The Headwaters Project ID# 31	Construct a new 42" RCP culverts through the CSX Railroad right-of-way to provide conveyance to the west. Bullfrog Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$82,800	In Process	No Change	> 12 mos	N	4/29/2015

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122.54	3	Low	Wedgewood Ave Northwood Village Ln. SWC-8A ID# 32	Construct 38" X 60" ERCP	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$543,000	In Process	No Change	> 12 mos	N	4/29/2015
122.55	3	Low	Delaney Creek-Oak Haven Circle and Prive Drive near Maydell Drive Drainage Improvement ID# 33	Upgrade structures of Maydell Drive to Concrete Box Culvert of adequate size and length. Delaney Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$257,400	In Process	No Change	> 12 mos	N	4/29/2015
122.56	3	Low	N. Hesperides Street Drainage Imp. LSWC-1A ID# 34	Regrade Existing Channel 12' Bottom Width, 1:1 Slope.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$959,000	In Process	No Change	> 12 mos	N	4/29/2015
122.57	3	Low	Livingston Ave to Max Smith Road erosional control ID# 35	Construct erosion control improvements to conveyance system between Livingston Avenue and Max Smith Road.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$289,800	In Process	No Change	> 12 mos	N	4/29/2015
122.58	3	Low	Crenshaw Lake Road Re-Grading. SWC-6A ID# 36	Re-Grade Roadway to Elevation 56.0 NAVD	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$232,000	In Process	No Change	> 12 mos	N	4/29/2015
122.59	3	Low	Delaney Creek -U.S. Hwy 41 ID# 37	Adding a 8' X 12' CBC, Delaney Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$819,000	In Process	No Change	> 12 mos	N	4/29/2015
122.60	3	Low	LIGHTFOOT ROAD AND LONG RIFLE DRIVE (2B) ID# 38	Install 48-inch RCP under Lightfoot Road just west of Long Rifle Drive. Install 48-inch RCP under Long Rifle Drive north of Lightfoot Road. Install erosion protection as needed along 1,000 LF of channel.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$331,100	In Process	No Change	> 12 mos	N	4/29/2015
122.61	3	Low	LIGHTFOOT ROAD AND LONG RIFLE DRIVE (2A) ID# 39	Install 48-inch RCP under Lightfoot Road j 1. ust west of Long Rifle Drive. Install 48-inch RCP under Long Rifle Drive north of Lightfoot Road. Remove existing driveway culverts and install 48-inch RCP in the right-of-way of Long Rifle Drive.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$459,100	In Process	No Change	> 12 mos	N	4/29/2015
122.62	3	Low	Clay Pit Rd/Pine St Proposed Alternative TBC-3C ID# 40	Upgrade Existing Pine St Pump Station to a Capacity of 10 cfs.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$570,000	In Process	No Change	> 12 mos	N	4/29/2015
122.63	3	Low	Wein Range Lane ID# 41	Construct channel improvements and replace existing pipe with a structure of adequate size and length to maintain the level of service for the conveyance system.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$149,400	In Process	No Change	> 12 mos	N	4/29/2015
122.64	3	Low	Nine Eagles Subdivision Culvert Replacement ID# 42	Replace the existing 30" RCP with a large structure that would allow meeting FPLOS along Patterson Road.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$123,700	In Process	No Change	> 12 mos	N	4/29/2015

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122.65	3	Low	Knights Griffin Rd Channel Improvements AB01ALT2 ID# 43	Road overtopping at Knights Griffin Rd due to inadequate conveyance capacity along Antioch Branch downstream of the road.as well as dredging 300ft of Lem Simmons Street.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$450,000	In Process	No Change	> 12 mos	N	4/29/2015
122.66	3	Low	WILLIAMS ROAD DRAINAGE IMPROVEMENTS TBC-1A ID# 44	The existing conditions model analysis predicts flooding on Williams Rd at the intersection with Electric Ave.Purchase a portion of the parcel on the west side of Williams Rd, to create a 2.1 acre-ft retention facility (TOB area = 0.65 acres).	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$85,900	In Process	No Change	> 12 mos	N	4/29/2015
122.67	3	Low	TC-7 Cameron Road Flood Alleviation ID# 45	During 25-year storm events, Cameron Road is flooded by more than 0.6 feet. This road is the only evacuation route to Cowart Rd for 11 residences south of the flooding on Cameron Road.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$155,000	In Process	No Change	> 12 mos	N	4/29/2015
122.68	3	Low	Pierce Harwell Road Pipe Upgrade (CB01ALT1) ID# 46	Overtopping is caused by an undersized 48" RCP along Campbell Branch, downstream of Pierce Harwell Road.Constructt two additional 48" pipes or replacing the existing culvert by a 5'X8' CBC along the Campbell Branch Channel.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$115,000	In Process	No Change	> 12 mos	N	4/29/2015
122.69	3	Low	AR-13 Four Winds Subdivision Flooding Alleviation. ID# 47	Flood complaints have been made and street flooding of up to 2.8 feet is predicted for the 10- year storm event.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,008,500	In Process	No Change	> 12 mos	N	4/29/2015
122.70	3	Low	MORRIS BRIDGE ROAD DRAINAGE IMPROVEMENTS. HRUP-2 ID# 48	A section of Morris Bridge Road north of High Meadow Avenue,The existing condition model analysis predicts flood depths in the right-of-way of up to 22 inches for more than 24-hours. Raise the road bed to elevation 33.15 ft NAVD88	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$545,300	In Process	No Change	> 12 mos	N	4/29/2015
122.71	3	Low	LIGHTFOOT ROAD AND SURREY TRAIL ID# 49	Replace 24-inch-x-42-inch corrugated metal pipe (CMP) pipe under Surrey 1. Trail with a twin 24-inch-x-38-inch elliptical RCP. Replace 36-inch CMP pipe under Lightfoot Road with a 3-foot-x-6-foot concrete box culvert (CBC).	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$155,200	In Process	No Change	> 12 mos	N	4/29/2015

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122.72	3	Low	VAL-1 Valrico Road Drainage Improvements ID# 50	This portion of Valrico Road north of State Road 60 experiences frequent road flooding with the model predicting a depth of 0.7 feet, for a 25-year event. Although a series of two pump stations already exist at this location,	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$502,400	In Process	No Change	> 12 mos	N	4/29/2015
122.73	3	Low	Saint Charlotte Drive Roadway Re-Grading. SWC-10C ID# 51	Re-Grade Roadway	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$165,000	In Process	No Change	> 12 mos	N	4/29/2015
122.74	3	Low	CLUB MANOR DRIVE (4B) ID# 52	Replace the curb inlet approximately 375 feet southeast of the intersection of Club Manor Drive and Green Manor Drive with a smart box curb inlet (FDOT Type J bottom with 6-foot weir cresting at 56.0 feet NAVD 88). Install 36-inch RCP (400 LF new, 154 LF replacement 24-inch RCP) from the new smart box to the larger pond. Remove two 18-inch CMP pipes (75 LF) approximately 400 feet southeast 3. of the intersection of Club Manor Drive and Green Manor Drive. Connect existing curb inlets to new manhole with 18-inch RCP.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$274,200	In Process	No Change	> 12 mos	N	4/29/2015
122.75	3	Low	CLUB MANOR DRIVE (4A) ID# 53	Replace the curb inlet approximately 50 feet south of the east intersection of 1. Club Manor Drive and Green Manor Drive with a smart box curb inlet (FDOT Type J bottom with 8-foot weir cresting at 56.0 feet NAVD 88). Install 1,200 LF of 36-inch RCP from new smart box to the larger pond.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$342,100	In Process	No Change	> 12 mos	N	4/29/2015
122.76	3	Low	Boy Scout Rd at Rodriguez Rd Drainage Improvement ID# 54	Replace existing structure with new structure of adequate size and length to provide recommended level of service for this conveyance system.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$178,200	In Process	No Change	> 12 mos	N	4/29/2015

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122.77	3	Low	TC-6 Dover Road/ S.R. 60 Drainage Improvements ID# 55	The portion of Dover Road south of Salem Church Road experiences frequent road flooding with the model predicting a depth of 1.22 feet for a 25-year event. The minimum elevation of this portion of Dover Road should be raised to 65.0 feet.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,224,600	In Process	No Change	> 12 mos	N	4/29/2015
122.78	3	Low	N Hesperides St. & W Henry Ave. Property Acquisiti ID# 56	Permanently Close Down N Hesperides St. Bridge to through traffic.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$2,738,000	In Process	No Change	> 12 mos	N	4/29/2015
122.79	3	Low	Simmons Loop Road Improvements ID# 57	Upgrade existing culverts under Simmons Loop Road with twin 4' X 6' Box culverts to provide adequate conveyance capacity. Bullfrog Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$221,400	In Process	No Change	> 12 mos	N	4/29/2015
122.80	3	Low	N Falkenburg Road Drainage Improvements TBC-4B ID# 58	Upgrade the existing 24" RCP and 29"x45" CMPA to double 36"x54" RCBC at Falkenburg Rd.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$303,700	In Process	No Change	> 12 mos	N	4/29/2015
122.81	3	Low	North Valrico Road Pipe Upgrade - BC01ALT1 ID# 59	Undersized two 6-feet x 8-feet ECMPs at N Valrico Road resulting in road overtopping, Replacing the existing (2) ECMPs by (2) 8-feet x 12-feet concrete box culverts at N Valrico Road.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$260,000	In Process	No Change	> 12 mos	N	4/29/2015
122.82	3	High	AR-3 RiverDr. & Coconut PI Floodprone ID# 60	Approximately seventy private parcels of land lie within the 10-year floodplain of the Alafia River at this site. Extensive flooding will occur on River Drive, Coconut Cove Place and Squirrel Run Way.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$4,135,600	In Process	No Change	> 12 mos	N	4/29/2015
122.83	3	Low	PEBBLE CREEK DRIVE DRAINAGE IMPROVEMENTS TRT-1C ID# 61	Subdivision residents report water on the roadway during intense storm events along Pebble Creek Drive. Replace the existing 18" RCP with double 36" RCP. Replace the existing 15" RCP with double 36" RCP.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$615,800	In Process	No Change	> 12 mos	N	4/29/2015

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122.84	3	Low	BRUTON ROAD DRAINAGE IMPROVEMENTS BLK-1A ID# 62	The existing conditions model analysis predicts flooding on Bruton Rd between Shoupe Rd and Charles Humphries Rd. Replace the existing pipes with a 24" RCPs. Construct a 30" equivalent RCP cross-crossdrain on the north and south side of Bruton Rd.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$289,300	In Process	No Change	> 12 mos	N	4/29/2015
122.85	3	Low	Lakes of Plantation Drainage Improvements. SWC-2B ID# 63	Raise Roadway: 220LF along Summer Drive, 230LF along Brighside Drive, 150LF along Starhill Place.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$821,000	In Process	No Change	> 12 mos	N	4/29/2015
122.86	3	Low	Ralston Beach Circle Drainage Imp. LSWC-2A ID# 64	Construct three (3) Type H DBI outfall structures Elev=35.80 ft NAVD88 with 48" RCP outfall pipes	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,600,000	In Process	No Change	> 12 mos	N	4/29/2015
122.87	3	Low	BUCK-3 CraftRd.Ditch Culvert Repl.&SW Detention ID# 65	Meet the 10-year criterion, the New Methodist Church of Brandon on Bryan Road and numerous homes in the Bryan Manor subdivision and north of the Craft Road Culverts would likely experience structural flooding during the 25-year storm event.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,297,500	In Process	No Change	> 12 mos	N	4/29/2015
122.88	3	Low	Delaney Creek - 70th Street S. Bridge Upgrade ID# 66	Remove existing structure carrying 70th Street traffic over Delaney Creek and replace with new Conspan bridge system	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$732,600	In Process	No Change	> 12 mos	N	4/29/2015
122.89	3	Low	Delaney Popoff - Fortuna Acres Improvements ID# 67	Construct channel improvements at tributary F between 50th and 51st Streets. Construct control structure at existing Fortuna Acres Pond. Delaney Creek Area	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$257,400	In Process	No Change	> 12 mos	N	4/29/2015
122.90	3	Low	Pemberton Creek Drive Raise Road & Pipe Addition ID# 68	PC02ALT2. Undersized 29-inch x 46-inch ERCP along Pemberton Creek at Pemberton Creek Drive resulting in road overtopping, Elevating the road grade profile and adding a second 29-inch x 46-inch ERCP.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$150,000	In Process	No Change	> 12 mos	N	4/29/2015
122.91	3	Low	Hollyglen Dr & Laurel Crest Ln Outfall Imp. SWC-3A ID# 69	Construct 60LF of 24" RCP	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$343,000	In Process	No Change	> 12 mos	N	4/29/2015
122.92	3	Low	Cranberry Ln Drainage Improvements TBC-8A ID# 70	Upgrade the existing 24" storm sewer system to 48" equivalent RCP.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,140,000	In Process	No Change	> 12 mos	N	4/29/2015

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122.93	3	Low	Archie Creek - Krycul Avenue /Ashley Oaks Drainage Improvement ID# 71	Replace existing culverts with structures of adequate size and length at Mint Julip Circle and Krycul Avenue west of Ashley Oaks Subdivision.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$455,400	In Process	No Change	> 12 mos	N	4/29/2015
122.94	3	Low	Silverhill Drive Flood Alleviation RB-1b ID# 72	Street flooding has been reported on Silverhill Drive. Modeling predicts street flooding of over 0.5' for the 25yr/24hr design storm. The proposed solution is to provide additional outfall capacity to the Silverhill Pond.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$922,800	In Process	No Change	> 12 mos	N	4/29/2015
122.95	3	Low	Bruce B. Downs System ID# 73	Construct new stormsewer system, upgrade ditch & pipes. Cypress Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$4,782,600	In Process	No Change	> 12 mos	N	4/29/2015
122.96	3	Low	AR-6 Whitlock Pl. & Herndon St. Flooding ID# 74	Severe street and house flooding is predicted for the north end of Whitlock Place and Herndon Street due to an undersized retention pond.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$2,946,400	In Process	No Change	> 12 mos	N	4/29/2015
122.97	3	Low	Carrollwood Meadows Flood Alleviation RB-10 ID# 75	Street flooding has been reported on Heasland Hills Ave and Carrollwood Meadows Dr. Replace 18" RCP with 36"(eqv)ERCP at Carrollwood Meadows Dr. and 30" RCP outfall pipe will be installed under the length of Old Farm Rd.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$726,400	In Process	No Change	> 12 mos	N	4/29/2015
122.98	3	Low	HOLLOMAN'S BRANCH ESTATES Dr. Imp. SC-2A ID# 76	Flooding problems have been reported along Holloman Brook Court located within the Holloman's Branch Estates Subdivision in the Clay Gully East tributary. Increase the conveyance by the addition of a 43"x68" ERCP. Construct an Type DBI with 18" RCP.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$2,048,000	In Process	No Change	> 12 mos	N	4/29/2015
122.99	3	Low	Floodplain Reclamation at Mobile Home community ID# 77	Purchase property required to re-establish the natural floodplain conditions by removal of all encroachments.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,513,800	In Process	No Change	> 12 mos	N	4/29/2015

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123.00	3	Low	FIVE ACRE ROAD DRAINAGE IMPROVEMENTS SC-1A ID# 78	Flooding problems have been reported and confirmed on Five Acres Rd in the Clay Gully East tributary. Replace the existing pipes, Provide 45-acre feet of additional storage, Construct a FDOT Type "H" DBI with double 30" RCP outfall pipes.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,881,900	In Process	No Change	> 12 mos	N	4/29/2015
123.01	3	Low	W Chelsea Street Outfall Improvements. LSWC-4A ID# 79	Replace Existing Inlet Structure.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$543,000	In Process	No Change	> 12 mos	N	4/29/2015
123.02	3	Low	Black Dairy Road Drainage Improvements (TBC-2B) ID# 80	Channel Improvements Approximately 1000 ft.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,100,000	In Process	No Change	> 12 mos	N	4/29/2015
123.03	3	Low	Northdale Blvd Flood Alleviation RB-1c ID# 81	Frequent street flooding more than a foot deep has been reported on Northdale Blvd between Dawnview Dr and the north-south portion of Northdale Blvd. Replace undersized stormwater drainage system, maintain ditch and remove accumulated sediment.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$940,600	In Process	No Change	> 12 mos	N	4/29/2015
123.04	3	Low	Lenore Dr. & Golfwood Blvd. LSWC-9A. ID# 82	Construct 2,120 LF of 34"x53" ERCP storm sewer west along Lenore Drive, then north on Bray Road and discharging ultimately to the existing ditch at Sweetwater Park.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$953,000	In Process	No Change	> 12 mos	N	4/29/2015
123.05	3	Low	N POEL RD AND N PEEPLES RD Dr. Imp. SC-4B ID# 83	The existing conditions model analysis predicts road overtopping at N Poel Rd and N Peeples Rd. Replace the existing pipes, Improve the existing channel, Construct a 48" RCP from the north side of the 4'x10' RCBC under W Knights Griffin Rd.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$2,088,200	In Process	No Change	> 12 mos	N	4/29/2015
123.06	3	Low	Village Estates PI/Brentwood Dr. SWC-9B ID# 84	Re-Grade Roadway	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$985,000	In Process	No Change	> 12 mos	N	4/29/2015
123.07	3	Low	N DORMANY ROAD Dr. Imp. SC-5B ID# 85	Flooding has been reported by local residents and County staff along N Dormany Rd in both the Clay Gully East tributary and the Holloman's Branch tributary. Replace the existing pipes, Improve the existing channel & Ditch.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$4,661,900	In Process	No Change	> 12 mos	N	4/29/2015

Proj /Obj #	Objective	Rank	Name of Project	Description of Project	Hazards Mitigated	Funding Source	Jurisdiction Location	Agency Responsible for Implementation	Estimated Costs	Status	Change Status	Timeframe for Completion	N, E, C, D	Last Updated
123.08	3	Low	Channel Improvements & Floodplain Reclamation @ 131st near Fletcher Ave ID# 86	Construct channel improvements upstream and downstream of Florida Avenue. Reclaim floodplain at M.H.P. and excavate as partial compensation storage upstream of Fletcher Avenue. Improve conveyance under 138th Avenue. Restore/create wetland/riparian habita	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$2,322,000	In Process	No Change	> 12 mos	N	4/29/2015
123.09	3	Low	Carrollwood Village Dr/Stillwater Terrace. SWC-11A ID# 87	Modify Outfall Structure	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$2,500,000	In Process	No Change	> 12 mos	N	4/29/2015
123.10	3	Low	Larson Sinkhole Area Proposed Alternative TBC-6A ID# 88	Upgrade the existing 42" RCP connecting the Kingsway Gardens storm sewer system to the Brenda Drive Pond to a 66" equivalent RCP.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$2,654,000	In Process	No Change	> 12 mos	N	4/29/2015
123.11	3	Low	Tampa West Business Complex. SWC-12A ID# 89	Install 1020LF of (2) 36" RCPs	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$1,286,000	In Process	No Change	> 12 mos	N	4/29/2015
123.12	3	Low	Delaney Creek -Lateral B Improvements ID# 90	Construct channel improvements to lateral B within Delaney Creek and upgrade structures at Tidewater Trail, Robindale Road and Balfour Circle.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$3,607,200	In Process	No Change	> 12 mos	N	4/29/2015
123.13	3	Low	Tyrone MHP Improvements ID# 91	Purchase mobile homes and create 11 acre flood storage pond. Construct control structure on pond that discharges to Fletcher Avenue collection system. Construct berm at Ola Avenue and West Street. Construct control structures and conveyance system from 3	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$6,703,200	In Process	No Change	> 12 mos	N	4/29/2015
123.14	3	Low	Cashmere Lane Pond Outfall Improvement RB-1d ID# 92	Flooding has been reported in the vicinity of the Cashmere Ln Pond. The proposed solution is to reduce the amount of runoff that enters Cashmere Ln Pond by plugging the stormwater drainage at Braesgate Lan and Cashmere Ln and install & upgrade pipes.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$3,340,900	In Process	No Change	> 12 mos	N	4/29/2015
123.15	3	Low	Manhattan Ave/Coolidge Ave Dr. Imp. SWC-1A ID# 93	Construt Control Structure	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$11,008,000	In Process	No Change	> 12 mos	N	4/29/2015

Proj /Obj #	Objective	Rank	Name of Project	Description of Project	Hazards Mitigated	Funding Source	Jurisdiction Location	Agency Responsible for Implementation	Estimated Costs	Status	Change Status	Timeframe for Completion	N, E, C, D	Last Updated
123.16	3	Low	Delaney Creek - Lateral E-1 Improvements ID# 94	Upgrade structures at Palm River Road and at SR 60 (Adamo Drive) in lateral E within Delaney Creek. Delaney Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$660,330	In Process	No Change	> 12 mos	N	4/29/2015
123.17	3	Low	Clifton St & Hillsborough Ave Area LSWC-6A ID# 95	Construct 1150 LF of 48" X 76" ERCP Bypass Storm Sewer System from Existing Clifton St. Inlets to Sawyer Rd Bridge.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$21,080,000	In Process	No Change	> 12 mos	N	4/29/2015
123.18	3	Low	Creek Cross St at Pleasant Run Way Dr. Imp. CGW-1A ID# 96	The Creek Cross Street flooding. Install a flapgate or check valve on the existing STA control structure'S 19"x30" ERCP to eliminate backflow from rising stages in Clay Gully West during peak flood conditions.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$22,000	In Process	No Change	> 12 mos	N	4/29/2015
123.19	3	Low	CHARLES HUMPHREY ROAD DRAINAGE IMPROVEMENTS ID# 97	Construct a modified FDOT Type "C" structure on the east side of the wetland. Construct 75 ft of 15" RCP to the east until a positive slope exists to convey the flow to the tributary which flows the north to Blackwater creek.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$24,000	In Process	No Change	> 12 mos	N	4/29/2015
123.20	3	Low	LURLINE CIRCLE DRAINAGE IMPROVEMENTS HRLOW-1A ID# 98	Flooding of this residential street results from rising stages in the regional detention facility located to the south to which Lurline Circle is hydraulically connected by the local collection system consisting of a curb inlet & 24" Pipe.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$34,200	In Process	No Change	> 12 mos	N	4/29/2015
123.21	3	Low	Lowell Road Drainage Improvements RB-6 ID# 99	Road flooding occurs on Lowell Rd at low spot in the road between Dellwood Rd and Cinnimon Pl. The preferred solution is to install a storm sewer system starting from 300' E. of Dellwood Rd and connecting to the ditch E od Pepper Pl.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$193,500	In Process	No Change	> 12 mos	N	4/29/2015
123.22	3	Low	Archie Creek - 78th Street Detention Pond ID# 100	Pond east of 78th Street near junk yard. Delaney Creek Area.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$318,600	In Process	No Change	> 12 mos	N	4/29/2015

Proj /Obj #	Objective	Rank	Name of Project	Description of Project	Hazards Mitigated	Funding Source	Jurisdiction Location	Agency Responsible for Implementation	Estimated Costs	Status	Change Status	Timeframe for Completion	N, E, C, D	Last Updated
123.23	3	Low	Ellen Way / Alpine Dr Proposed Alternative TBC-7A ID# 101	In the proposed detention area, construct an FDOT Type "C" DBI. Route to the north, via an 18" RCP, and connect to the existing Parsons Ave storm sewer system. This storm sewer system discharges west under Parsons Ave to a County owned retention pond.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$940,000	In Process	No Change	> 12 mos	N	4/29/2015
123.24	3	Low	Pemberton / Baker Confluence Diversion Channel PC01ALT1 ID# 102	Flooding problems at the confluence of Pemberton Creek and Baker Canal, Construct a diversion channel from the main stream of Pemberton Creek to Baker Creek.	Flooding	CIT/State & Fed Grants	CO	County Public Works	\$2,000,000	In Process	No Change	> 12 mos	N	4/29/2015
123.25	3	High	Winterwind Drive Mitigation Project	Flood Mitigation- Acquisitions, Elevations, Stormwater, etc...	Flooding		CO	County Public Works			No Change	> 12 mos		12/20/2016
123.26	3	High	56th Street Flood Control	Improve intersection flooding and water quality	Flood	HMGP	CW	County Public Works	\$2,550,000	New	No Change	>12 months	N	8/7/2018
286.4	4	Low	Back-up Generators for Shelters	Retrofit hurricane shelters listed in 2009 Hurricane Guide (or as identified on an updated and approved list). [delete = , except Pierce Jr. High School. CDBG grant funds obtained through the Community Improvement Dep. will assist in retrofitting specific shelters.]	Flooding, hurricanes, tropical storms, thunderstorms	CDBG (Special Needs only) Proposed New Development Hazard Mitigation Offset	CW	OEM, CI	Unknown	In Process	No Change	>12 months	E	12/10/2013
301.4	4	Low	Update Redevelopment Plan	Re-engage, update current process (or planif applicable). Identify areas to strategically address after a catastrophic event (area linkages and secondary facility support).	PWs/HazMit	HMGP Planning Grant DHS Grant	CW	PW/OEM	\$271,000	In Process	No Change	>12 months	N	12/10/2013
346.4	4	Low	Wind Mitigation Tampa General Hospital	Harden Trauma 1 Hospital to withstand Category 5 hurricane winds.	Flood, hurricane	HMGP Funds	CW	Tampa General	\$4,212,651	In Process	No Change	>12 months	E	12/10/2013

Proj /Obj #	Objective	Rank	Name of Project	Description of Project	Hazards Mitigated	Funding Source	Jurisdiction Location	Agency Responsible for Implementation	Estimated Costs	Status	Change Status	Timeframe for Completion	N, E, C, D	Last Updated
355	4	Low	Bridge Approach Mitigation	Install approach slab to 11 critical bridges susceptible to flood damages	Floods, Stormsurge	Emergency Management and Preparedness Funds, Hazard Mitigation Assistance Program, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Watershed Protection & Flood Prevention Program, CIP, CDBG (EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB)	CW	County Public Works	\$1,320,000	In Process	No Change	> 12 mos	N	6/1/2011
355.1	4	Low	Big Bend Bridge Approach -- 100270	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.2	4	Low	Dickman Road Bridge Approach -- 104322	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.3	4	Low	Dickman Road Bridge Approach -- 104323	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.4	4	Low	Port Sutton Bridge Approach -- 104136	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011

Proj /Obj #	Objective	Rank	Name of Project	Description of Project	Hazards Mitigated	Funding Source	Jurisdiction Location	Agency Responsible for Implementation	Estimated Costs	Status	Change Status	Timeframe for Completion	N, E, C, D	Last Updated
355.5	4	Low	Port Sutton Bridge Approach -- 104137	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.5	4	Low	CR 587 (Westshore Bridge Approach) -- 105909	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.6	4	Low	CR 587 (Westshore Bridge Approach) -- 105911	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.7	4	Low	2nd Street Northeast Bridge Approach -- 104317	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.8	4	Low	36th Avenue Bridge Approach -- 104107	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.9	4	Low	Maydell Drive Bridge Approach -- 104155	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
355.11	4	Low	Pebble Beach Blvd. Bridge Approach -- 104316	Install approach slab to a critical bridge susceptible to flood damages	Floods, Stormsurge	EMPG, HMGP, FMA, HMA, WP&FPP, CIP, CDGB	CW	County Public Works	\$120,000	In Process	No Change	> 12 mos	N	6/1/2011
358.00	4	Low	Florida State Fair Authority Comprehensive Plan Update and Implementation	Comprehensive Plan Update and Implementation	All Hazards	HMGP	CW	Florida State Fair Authority	TBD	New List	No Change	>12 months	N	12/20/2016
358.10	4	Low	Florida State Fair Authority Hardening of ALL buildings on the Fairgrounds	Hardening Buildings to withstand Category 5 hurricane. Hardening of open area of event services.	Wind	HMGP	CW	Florida State Fair Authority	TBD	New List	No Change	>12 months	N	12/20/2016
358.20	4	Low	Florida State Fair Authority Stormwater Management for parking lots	Upgrade of existing drainage system to relieve flooding for emergency response	Flooding	HMGP	CW	Florida State Fair Authority	TBD	New List	No Change	>12 months	N	12/20/2016

Proj /Obj #	Objective	Rank	Name of Project	Description of Project	Hazards Mitigated	Funding Source	Jurisdiction Location	Agency Responsible for Implementation	Estimated Costs	Status	Change Status	Timeframe for Completion	N, E, C, D	Last Updated
358.30	4	Low	Florida State Fair Authority fuel area modification to meet chemical spill criteria	Fuel area modification to meet chemical spill criteria	Flood, Chemical Release	HMGP	CW	Florida State Fair Authority	TBD	New List	No Change	>12 months	N	12/20/2016
358.40	4	Low	Florida State Fair Authority Improve Drainage Structures	Construction of new and rehabilitation of existing ditch sytem. Construct a stormwater system to existing retention pond.	Flood	HMGP	CW	Florida State Fair Authority	TBD	New List	No Change	>12 months	N	12/20/2016
282.4	4	Low	Critical Facilities Countywide Accessible System and System Maintenance	Principal purpose of this program is to maintain the CFI as required by the CEMP and to assist city departments in preparing and responding to emergency situations. The program also includes a redesign of the CFI database for users to maintain via a digital (protected) database.	All Hazards	Unknown	CT, CO, TT, PC, Private	Plng & Mgmt, OEM, PW, ITS, Fire/Rescue, Priv. Companies	Unknown	Ongoing	No Change	>12 months	E	12/10/2013

Color Legend	Project Dormant
	Project Completed
	Project Deleted

Table D.3: Plant City Active Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
1	Critical Facilities Countywide Accessible System and Maintenance: Maintain the critical facilities inventory to prepare for and respond to emergency situations.	All Hazards	Low	2.1	Planning Department	Local funds	Local time	2021	Deferred. The inventory is updated and reported to the state annually.

Color Legend	Project Active
	Project Completed
	Project Deleted

Table D.4: Plant City Archived Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
	Eastside Canal Masterplan Projects	Flood	Low	2.4	Engineering	State & Federal funds, local funds	\$7,500,000	Unknown	Deferred. Project has not been fully funded.
	Channel Improvement - Eastside Canal	Flood	Low	2.4	Public Works	State & Federal funds, local funds	\$800,000	Unknown	Deferred. Project has not been fully funded.
	Reynolds Street to CSX Railroad Channel Improvements	Flood	Low	2.4	Public Works	State & Federal funds, local funds	\$600,000	Unknown	Deferred. Project has not been fully funded.
	Laura Street Culvert and Flood Improvements	Flood	Low	2.4	Public Works	CDBG	\$1,200,000	Unknown	Deferred. Project has not been fully funded.
	Fire Station No. 2 Wind Retrofit	Hurricane, Tropical Storms, Thunderstorms	Low	4.1	Public Works	State & Federal funds, local funds	\$68,306	Unknown	Deferred. Project has not been fully funded.
	City of Plant City – Lift Station 2 upgrade	Flood	Low	2.4	Public Works	State & Federal funds, local funds	TBD	Unknown	Deferred. Project has not been fully funded.

Color	Legend
	Project Active
	Project Completed
	Project Deleted

Table D.5: Tampa Active Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
1	Lamb Ditch Improvements: Repair and reinforce the side slopes of the ditch to reduce erosion on to private property	Flood	High	2.4	COT Stormwater	FEMA / HMGP	\$1,500,000	2022	New project
2	3604 E. 7th Avenue: Extension of stormwater system or purchase property in neighborhood and provide retention for flood relief.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$1,000,000	2025	Deferred. Still trying to secure appropriate funding.
3	Eastridge Pumping Station: 800 W. 109th St. - Rehabilitation of existing pumping station to provide redundancy and resilience Cost	All Hazards	High	2.4	COT Stormwater	FEMA / HMGP	\$600,000	2021	Currently, the pumping station is being constructed.
4	Poinsettia Pumping Station: 2806 E. Poinsettia Ave. - Rehabilitation of existing pumping station to provide redundancy and resilience Cost	Flood	Low	2.4	COT Stormwater	FEMA / HMGP	\$500,000	2021	Currently, the pumping station is being constructed.
5	Nebraska: Emma North of MLK Boulevard (SE Seminole Heights Flood Relief) Extension of City and FDOT stormwater system to address flooding in area.	Flooding, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$170,000	2025	Deferred. Still trying to secure appropriate funding.
6	2905 - 2907 Comanche Avenue: Construction of ditch and culvert system to retention pond for flood relief in area.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$120,000	2025	Deferred. Still trying to secure appropriate funding.
7	305 E Althea Avenue: Extension of stormwater system to address flooding at low area in road.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$100,000	2025	Deferred. Still trying to secure appropriate funding.
8	6115 N 23RD Street: Construct system along 23rd St and connect to system on Hanna Ave	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$100,000	2025	Deferred. Still trying to secure appropriate funding.
9	9314 Forest Hills Drive: Design and construction of stormwater system to eliminate area flooding of garages and streets.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$135,000	2025	Deferred. Still trying to secure appropriate funding.
10	North B W 2906/Gomez: Extension of stormwater system to address flooding on Gomez between Tampa Bay Blvd. and Douglas.	Flooding, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$125,000	2025	Deferred. Still trying to secure appropriate funding.
11	9313 N Mary Avenue (Mary Sink): Establish outfall and design pumping facility to improve drainage in closed basin 908 north of Busch and east of Nebraska.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$175,000	2025	Deferred. Still trying to secure appropriate funding.
12	10414 North Connechusett Road: Extension of stormwater system to address flooding in area.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$250,000	2025	Deferred. Still trying to secure appropriate funding.
13	Oakwood Avenue E/20TH Street: Extension of stormwater system down Oakwood to 22nd St.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$250,000	2024	Deferred. Still trying to secure appropriate funding.

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
14	3311 W Napoleon Avenue (Lower Peninsula Flood Relief): Construct new stormwater system to connect to box culvert and eliminate flooding along Napoleon.	Flooding, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$170,000	2024	Deferred. Still trying to secure appropriate funding.
15	Annette Avenue N 109TH Avenue: Construct a lateral stormwater system to existing retention pond.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$360,000	2024	Deferred. Still trying to secure appropriate funding.
16	Westshore/Longfellow/Dundee: Construction of new and rehabilitation of existing ditch system	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$340,000	2024	Deferred. Still trying to secure appropriate funding.
17	Armenia Avenue & Kirby Street: Design system to convey stormwater toward Hillsborough County system.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$600,000	2024	Deferred. Working with the County to determine the best route.
18	4518 W Pearl Avenue: Pipe in drainage ditches along Pearl Ave to Westshore.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$247,000	2024	Deferred. Still trying to secure appropriate funding.
19	Pearl/Dale Mabry/Grady: Extension of stormwater system within area now serviced with ditches to address flooding.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$550,000	2024	Deferred. Still trying to secure appropriate funding.
20	Clark Avenue S 117 (Cleveland Street Upgrade): Design and construction of additional trunk line and outfall to relieve flooding along Cleveland St.	Flooding, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$20,000,000	2025	Deferred. Still trying to secure appropriate funding.
21	Ashley Drive N/Azalea2/3/2020 Construction of stormwater system along Ashley to Azalea and new outfall to Curiosity Creek retention.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$2,500,000	2025	Deferred. Still trying to secure appropriate funding.
22	Elliott/Ingraha/Morton: Construction of drainage ditches within neighborhood.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$6,500,000	2022	Deferred. Need to determine the exact location of all ditches to be dug.
23	Cypress St. Outfall: Phase 1 completed/further expansion of system design and construction required.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$20,000,000	2025	Deferred. This project is the stages of determining the next steps.
24	Dale Mabry and Henderson: Upgrade the stormwater drainage system located at Dale Mabry at Henderson, Watrous, and Neptune. This is a primary evacuation route with critical facilities serviced by this area.	Floods, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	N/A	2025	Deferred. Working on the funding for the entire project.
25	Closed Basin 906 - 115th & 15th St. Phase of NTCB (North Tampa Closed Basin) Flood Relief 10937 N 14th St: 10937 N 14th St -	Floods, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$7,000,000	2022	City is in the process of acquiring numerous floodprone properties in the area to construct a series of retention ponds for flood protection purposes.

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
26	Closed Basin 920 Newport & El Portal Dw Flood Relief 8932 N Newport Av: 8932 N Newport Av Flood Relief - City will be constructing a pump station adjacent to an existing retention pond that is located within a closed basin.	Floods, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$100,000	2021	Deferred. Currently in the design phase.
27	15th St At Ellicott Flood Relief 5018 15th St: 5018 15th St Flood Relief	Floods, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$125,000	2023	Deferred. The project consists of construction of new pipes and inlets and regrading of the roadway as needed to alleviate the flooding. The pipes will be installed first.
28	Virginia West Of Coolidge Sw Improvements Flood Relief 4311 W Virginia Av: 4311 W Virginia Av Flood Relief	Floods, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$200,000	2020	Deferred. The City is in the process of designing a pump station to be constructed.
28	3204 Wallcraft Ave Flood Relief 3204 W Wallcraft Ave: 3204 W Wallcraft Ave Flood Relief	Floods, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	2025	Project will be addressed as part of the ongoing Lower Peninsula Flood Relief Projects - Construct a 6'x4' box culvert to provide flood relief that ultimately discharges to the Bay
30	Conley Box Flood Relief 2912 W Trilby Av: 4113 Leila Av Flood Relief	Floods, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$25,000,000	2022	Project is part of our overall Lower Peninsula Flood Relief Projects - This is part of the "Southeast" region project to construct a box culvert and retention pond to provide regional flood relief.
31	Railroad Spur Construction: Elevate the railroad spur which when flooded, jeopardizes chemical deliveries to the Water Treatment Plant	Flood	Low	2.4	COT Stormwater	FEMA / HMGP	\$1,700,000	2025	Deferred. Will apply for grant funding.
31	Neighborhood Information Program: Program to be further developed. Work with various Neighborhood Liaisons in providing information and promoting private sector involvement in completing mitigation projects.	All Hazards	Low	1.1, 4.2	Neighborhood Relations/OEM/PW	Homeland Security Grant Program Grants-CERT & Citizen Corps, CO Funds	N/A	2021	Deferred. Currently, working to implement a robust program.
32	Retrofit and/or Acquisition Existing Structures	All Hazards	Low	2.4	Hazard Mitigation (HazMit), Property Owners	Flood Mitigation Assistance and Hazard Mitigation Grant Program	N/A	2025	Deferred. Currently working through State grant process to implement through the County's Hazard Mitigation Program/Section. This is primarily a public information program designed to encourage residents to retrofit existing structures to better withstand natural hazards.

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
33	Hazard Mitigation Education Program: Provide residents and business owners with current information on methods and procedures for completing retrofits and in protecting themselves against potential disasters. Measures include: brochures and Hazard Mitigation Web Page	All Hazards	Low	1.1	Local Mitigation Strategy W.G.	CO Funds, SWFWMD FLASH	N/A	2021	Deferred. Currently, working on pulling information together for dissemination.
34	Hazard Mitigation Website Development Review of planning and implementation procedures	All Hazards	Low	3.1	Hazard Mitigation	CO HazMit Funds	N/A	2021	Deferred. Currently, reviewing and assessing the measures in place.
35	Private Section Coordination: Currently being strengthened through County OEM and Hazard Mitigation Sections. Ensure representatives from MacDill Air Force Base, Port of Tampa, Westshore Business Alliance, Tampa Downtown Partnership, Greater Tampa Chamber of Commerce, Ybor City Chamber, come together to cooperate.	All Hazards	Low	2.3	OEM	County Funds	N/A	2021	Deferred. The City is participating in all the opportunities to have countywide coordination with the private sector.
36	Costs and Benefits of Community Resiliency (includes Sea Level Rise Adaptation) Strategies: Use existing tools and create new data to evaluate the vulnerability, impacts and economic costs of sea level rise for the Tampa Bay area under different sea level rise scenarios, as well as to provide adaptation options for the region.	All Hazards	Low	2.2	Public Works/MPO/USF	FEMA/NOAA/FHWA	Unknown	2024	Deferred. This an ongoing effort to determine the potential scenarios and create an implementation plan for adaptation strategies.
37	Spatial-Temporal Econometric Model to Estimate Costs and Benefits of Adaptation Strategies: Use existing NOAA tool to evaluate the vulnerability, impacts and economic costs of sea level rise for the Tampa Bay area under different sea level rise scenarios, as well as to provide adptation options for the region.	Sea-Level Rise Flood	Low	2.2	Dept. of Urban & Regional Planning, University of Florida	Florida Sea Grant	\$300,000	2024	Deferred. This an ongoing effort to determine the potential scenarios and create an implementation plan for adaptation strategies.
38	Stormsurge Chemical Contamination Study: Utilize Phase I Study of impacts from a stormsurge event; and, determine effective mitigation measures for structures and chronic or acute impacts to persons and the environment.	Floods	Low	2.2	Hazard Mitigation and the Office of Emergency Management	DHS Issue Grants	\$120,000	2024	Deferred. Phase 1 is complete and Phase 2 has begun.
39	Floodplain Management Plan Update: Review of planning and implementation procedures (5-year Update Floodplain Management Plan)	Flooding	Low	2.2	Local Mitigation Strategy W.G./Neighborhood Relations, OEM, Plan. Comm.	Flood Mitigation Assistance and Hazard Mitigation Grant Program	\$33,300	2022	Deferred. Will update the Floodplain Management Plan in 2022 from a 2017 update.
40	Eastside Canal Masterplan Projects: Projects identified in the Master Plan	Flooding	Low	2.4	Engineering	CIP; HMGP	\$7,500,000	2025	Deferred. Working through the Master Plan timeline.
41	109th Avenue Wastewater Pump Station: Rehabilitate the pump station to minimize the risk of being flooded. The station's electrical components are located below grade and are subject to failure if station were to flood. The City is planning to rehabilitate the station to upgrade equipment and to make improvements to prevent failures from flooding and storm events.	Flooding	High	2.4	Wastewater Department	CIP; HMGP	\$1.3 million	June 2022	Deferred. The City has planned funding and is currently looking for a design-build team to complete the design and construction.
42	Ballast Point Wastewater Pumping Station: he City is planning to rehabilitate the station to upgrade equipment and to make improvements to prevent failures from flooding and storm events.	Flooding	High	2.4	Wastewater Department	CIP; HMGP	\$1.3 million	April 2022	Deferred. The City has planned funding and is in the design phase of the project.

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
43	Bayshore Wastewater Pumping Station: Rehabilitate the pump station to meet base flood elevation requirements.	Flooding	High	2.4	Wastewater Department	CIP; HMGP	\$3,750,000	October 2023	Deferred. Was design funded in 2020 with CIP.
44	Beach Park Isle Wastewater Pumping Station: Rehabilitate the pump station to meet base flood elevation requirements.	Flooding	Medium	2.4	Wastewater Department	CIP; HMGP	\$650,000	April 2025	Deferred. The City has planned funding and is currently looking for a design-build team to complete the design and construction.
45	Presscott Wastewater Pumping Station: Rehabilitate the pump station to meet base flood elevation requirements.	Flooding	High	2.4	Wastewater Department	CIP; HMGP	\$1.3 million	June 2022	Deferred. The City has planned funding and is currently looking for a design-build team to complete the design and construction.
46	Rome Wastewater Pumping Station: Rehabilitate the pump station to meet base flood elevation requirements.	Flooding	Medium	2.4	Wastewater Department	CIP; HMGP	\$1.3 million	April 2023	Deferred. The City has planned funding and is currently looking for a design-build team to complete the design and construction.
47	Virginia Wastewater Pumping Station: Rehabilitate the pump station to meet base flood elevation requirements.	Flooding	High	2.4	Wastewater Department	CIP; HMGP	\$650,000	September 2021	Deferred. The City has planned funding for the project and is in the process of selecting a consultant for the design portion of the project. Was partially funded in 2020.
48	Critical Facilities Countywide Accessible System and Maintenance: Maintain the critical facilities inventory to prepare for and respond to emergency situations.	All Hazards	Low	2.1	Planning Department	Local funds	Local time	2021	Deferred. The inventory is updated and reported to the state annually.

Color Legend	Project Active
	Project Completed
	Project Deleted

Table D.6: Tampa Archived Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
	507 Woodlynne Avenue: Redesign of ditch to control flooding of structure.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$85,000	Complete	Project is completed.
	Diana Street E/Julie Avenue: Construct stormwater system along Diane and connect to system at 19th St.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$125,000	Complete	Project is completed.
	10016 N Hyacinth Avenue: Design and construction of retention and pumping system to provide drainage for closed basin 914.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$952,000	Complete	Project is completed.
	Moody Avenue S/Stroud Avenue West: Extension of stormwater system to address flooding at low area in road.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Department	Sales Tax, State Revolving Funds, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program (ST, SRF, FMA, HMGP, NPS, WP&FPP)	\$40,000	Complete	Project is completed.
	1417 E. Holland Street: Extension of stormwater system to address flooding at low area in road.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$35,000	Complete	Project is completed.
	1004 E. 109th Avenue: Extension of stormwater system to address flooding at low area in road.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$40,000	Complete	Project is completed.
	Jasmine Avenue N/Linebaugh Avenue East: Same as Orchid /Jasmine Sinkhole restoration for flood reduction purposes in the area	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$275,000	Complete	Project is completed.

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
	2703 N Sanders Drive: Extension of stormwater system within area now serviced with ditches to address flooding.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$665,000	Complete	Project is completed.
	Euclid Avenue & Manhattan Avenue: Gandy/Manhattan to Euclid deferred; Joint DPW/SWM project.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$700,000	Complete	Project is completed.
	Linebaugh & Nebraska (Orchid Sink): Expansion of stormwater system to relieve flooding in area.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$1,162,500	Complete	Project is completed.
	Himes Avenue S/Palmira To San Louis: Extension of stormwater system to address flooding in area.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	CIP	\$1,160,000	Complete	Project is completed.
	Hillsborough Ave. & 30TH Street: Design and construction of stormwater system including retention to provide flood relief in area.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	CIP and the SWFWMD	\$1,450,000	Complete	Project is completed.
	Florida Avenue (From Palm Avenue To MLK): With FDOT, design stormwater system upgrades to improve drainage to prevent road flooding.	Floods, Hurricanes, and Tropical Storms	Low		FDOT	FDOT	Complete	Complete	Project is completed.
	Iowa Avenue W/6TH Street South: Upgrade and expand stormwater system to resolve area wide drainage problems.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$9,000,000	Complete	Project is completed.
	Drew Park: Upgrade and expand stormwater system to resolve area wide drainage problems.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$13,500,000	Complete	Project is completed.
	1ST Street S/Interbay/Gandy: Upgrade and expand stormwater system to resolve area wide drainage problems.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$13,000,000	Complete	Project is completed.
	Manhattan Avenue S Of Henderson - Vasconia B.C.: Upgrade and expand stormwater system to resolve area wide drainage problems.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$12,000,000	Complete	Project is completed.
	Cleveland Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Complete	Project is completed.
	Euclid Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Complete	Project is completed.

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
	4421 Clear Ave Flood Relief 4421 W Clear Av: 4421 W Clear Av Flood Relief	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Complete	Project is completed.
	Expansion of Citywide Stormwater SCADA System: Improve and enhance the Citywide SCADA system to increase monitoring of pumping stations Cost	All Hazards	Low		COT Stormwater	FEMA / HMGP	\$500,000	Complete	Project is completed.
	Conley Box Flood Relief 2912 W Trilby Av: 2912 W Trilby Av Flood Relief	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Complete	Project is completed.
	43rd Street Outfall Improvement: Upgrade existing drainage syste, to relieve flooding at area Hillsborough County area regional transit facility on 21st Avenue, which impedes response to storm evacuation.	Floods, Hurricanes, and Tropical Storms	Low		City of Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$15,000,000	Complete	Project is completed.
	El Prado and Manhattan: Upgrade the stormwater drainage system located at the intersection of El Prado and Manhattan. This is a primary evacuation route with critical facilities serviced by this area.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Complete	Project is completed.
	Closed Basin 917 Outfall Flood Relief 11412 Forest Hills Dr: 11412 Forest Hills Dr Flood Relief	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Complete	Project is completed.
	Forest Hills Flooding Relief Flood Relief 11513 N Forest Hills Dr: 11513 N Forest Hills Dr Flood Relief	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Complete	Project is completed.
	5802 N Florida Avenue: Extension of stormwater system to address flooding at low area in road.	All Hazards	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$45,000	Deleted	Currently, there is no funding source.
	3006 Fern Street: Extension of stormwater system to address flooding at low area in road.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$85,000	Deleted	Currently, there is no funding source.
	60TH Street N/10TH Avenue (60TH Street Ditch): Ditch realignment deferred; Survey work only.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$500,000	Deleted	Currently, there is no funding source.
	Westshore Avenue From Cypress to I-275 (FDOT Project): Periodic flooding of this FDOT intersection. Design and construct new crossing of Lemon Street Ditch.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$1,000,000	Deleted	Currently, there is no funding source.
	50TH Street (Between Adamo Drive & Acline Drive): With FDOT, design stormwater system upgrades to improve drainage to prevent road flooding.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$1,200,000	Deleted	Currently, there is no funding source.
	Kennedy & Firestone Bldg Ramp: With FDOT, design stormwater system upgrades to improve drainage to prevent road flooding.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$3,500,000	Deleted	Currently, there is no funding source.

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
	Henderson Blvd & S Dale Mabry Highway: Design and construction of major box culvert and outfall to relieve flooding in area. This project was replaced by a new project added in 2013 with the same name.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$30,000,000	Deleted	The project was replaced by a new project added in 2013 with the same name.
	Swastika Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Marcum Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Napolean Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Conley Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Austin Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Gandy Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	>12 months
	Georgetown Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Vasconia Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Ashbury Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Spanish Town Creek Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Rubideaux Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
	No. Spanish Town Creek Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Culbreath Bayou Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Ybor Channel Outfall: Upgrade and rehabilitate outfall structures and box culverts.	Flooding, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$10,000,000	Deleted	Currently, there is no funding source.
	Bc Graham Middle School Flood Relief 2915 Massachusetts Av: 2915 Massachusetts Av Flood Relief	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Deleted	Project is not currently on the City's project list - Construct stormwater system where there currently is no existing system.
	5th Avenue And 17th St Flood Relief 1701 E 5th Av: 1701 E 5th Av Flood Relief	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Deleted	Project is not currently on the City's project list due to funding.
	27th St & 7th Ave Flood Relief 2706 E 7th Av: 2706 E 7th Av Flood Relief - Implement flood relief measures in a low area of town.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Deleted	Project is not currently on the City's project list due to funding.
	Neptune St Dead End Flood Relief 4416 W Brookwood Dr: 4416 W Brookwood Dr Flood Relief - Implement flood relief measures on a dead end street that is low in elevation.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Deleted	Project is not currently on the City's project list due to funding.
	Westshore/Longfellow/Dundee Flood Relief 4802 W Longfellow Av: 4802 W Longfellow Av Flood Relief - Re-establish ditch system for flood reduction purposes in a low and tidally-influenced area of town.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Deleted	Project is not currently on the City's project list due to funding.
	3614 W Granada St Flood Relief 3614 W Granada St: 3614 W Granada St Flood Relief - Extend stormwater system to serve low point in road.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Deleted	Project is not currently on the City's project list due to funding.
	60th St Ditch Flood Relief 1923 N 60th St: 1923 N 60th St Flood Relief - Implement ditch improvements to improve flood protection in area.	Floods, Hurricanes, and Tropical Storms	Low		Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	TBD	Deleted	Project is not currently on the City's project list due to funding.

Color Legend	Project Active
	Project Completed
	Project Deleted

Table D.7: Temple Terrace Active Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
1	Upgrade the emergency operations center with retrofits to withstand category 5 wind speeds.	All hazards	High	4.1	Administration	FEMA / HMGP	\$1,000,000	2024	Deferred. The City has two proposals but has not yet secured funding.
2	Critical Facilities Countywide Accessible System and Maintenance: Maintain the critical facilities inventory to prepare for and respond to emergency situations.	All Hazards	Low	2.1	Planning Department	Local funds	Local time	2021	Deferred. The inventory is updated and reported to the state annually.

Color Legend	Project Active
	Project Completed
	Project Deleted

Table D.8: Temple Terrace Archived Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
	Richlyne Street Stormwater Pond Storage Enhancement Project	Flood	Low	2.4	Public Works	State funds, Federal grant, local funds	TBD	Unknown	Deferred. Project has not been fully funded.
	Pleasant Terrace Stormwater Improvements	Flood	Low	2.4	Public Works	State funds, Federal grant, local funds	TBD	Unknown	Deferred. Project has not been fully funded.
	SWFWMD CFI Grant Request for Stormwater Fee	Flood	Low	2.4	Public Works	State funds, Federal grant, local funds	TBD	Unknown	Deferred. Project has not been fully funded.

Color Legend	Project Active
	Project Completed
	Project Deleted

APPENDIX E – FL REVIEW TOOL

This appendix includes the local mitigation plan review tool. The tool was populated by Hillsborough County and submitted to the Florida Division of Emergency Management (FDEM) on March 4, 2020. The tool provided in this appendix includes FDEM’s comments received by Hillsborough County on March 30, 2020. Revisions to support FDEM’s requirements (also included in this appendix) were provided back to FDEM on April 17, 2020. FDEM provided correspondence via email on April 23, 2020 that the proposed revisions would support a fully compliant plan and that an Approved Pending Adoption (APA) letter was being developed. The APA letter will be provided to the communities once the full plan (with revisions included) is received by FDEM. Furthermore, the APA letter signifies compliance with FDEM and FEMA requirements for a Local Mitigation Strategy and identifies that the only remaining task is for the LMS to be adopted locally by each participating jurisdiction.

2020 Florida Local Mitigation Strategy (LMS) Crosswalk

INSTRUCTIONS:

Enter the requested information in each field below. For each requirement, **please populate the "Location in Plan" cells with your plan page numbers.** The National Flood Insurance Program's (NFIP) Community Rating System (CRS) Crosswalk and EMAP standards have been integrated into the LMS Crosswalk to facilitate review of the planning requirements under this program. The CRS requirements can be hidden or shown by clicking the "+ / -" on the left hand side of the worksheet depending on whether or not communities choose to participate. If your community chooses to minimize the CRS requirements in this worksheet, please select the review tab, click on "Unprotect Sheet", click the "-" next to each CRS requirement, and click "Protect Sheet" to ensure the functionality of the tool.

Jurisdiction: Hillsborough County, FL	Title of Plan: Hillsborough County Multi-jurisdictional	Date of Plan: 3/3/2020
Local Point of Contact: Eugene P Henry, AICP	Address: Tampa, FL 33602	
Title: Manager, Hazard Mitigation		
Agency: Engineering and Operations		
Phone Number: 813.307.4541	Email: henrye@hillsboroughcounty.org	

State Reviewer: Dan Curcio	Title: State Mitigation Planner	Date: 3/20/2020
Date Received by FDEM:		
Date Plan Not Approved:	3/30/2020	
Date Plan Approved Pending Adoption:		
Date Plan Approved:		

FEMA Reviewer:	Title:	Date:
Date Received by in FEMA Region IV:		
Date Plan Not Approved:		
Date Plan Approved Pending Adoption:		
Date Plan Approved:		

Planning Process		Location in Plan	Met	Not Met
P1.	Does the LMS document the planning process, including how it was prepared (with a narrative description, meeting minutes, sign-in sheets, or another method)?	26	X	
P2.	Does the LMS list the jurisdiction(s) participating in the plan that are seeking approval?	Executive Summary (Introduction); 5	X	
P3.	Does the plan identify who represented each jurisdiction? (At a minimum, it must identify the jurisdiction represented and the person's position or title and agency within the jurisdiction.)	Roster is included as part of Appendix A; Section 2: Planning Process and Plan Maintenance identifies participants	X	
<p>Reviewer Comments: P1) The plan provides excellent examples of the process including public invitations, meeting minutes and pictures of the meetings. Were there sign in sheets? P2) A list of all participating jurisdictions is found in the executive summary. M3) A roster of Working Group members can be found in Appendix A, p. 14.</p> <p>Required Revisions:</p>				

Planning Process (continued)		Location in Plan	Met	Not Met
P4.	Does the LMS document an opportunity for neighboring communities, local, and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development, as well as other interested parties to be involved in the planning process?	Documentation in Appendix A; Planning Process and Plan Maintenance	X	
P5.	Does the plan identify how the stakeholders were invited to participate in the process?	Documentation in Appendix A; Planning Process and Plan Maintenance	X	
P6.	Does the LMS document how the public was involved in the planning process during the drafting stage?	Documentation in Appendix A; Planning Process and Plan Maintenance (Step 2); 30		
<p>Reviewer Comments: P4) Stakeholder participation is highlighted in Appendix A as well as the plan process. P5) Stakeholder invites are included in Appendix A. They are screenshots of email invitations as well as invitations from the county website. P6) Appendix A documents public involvement including proof of invitations to meetings.</p> <p>Required Revisions:</p>				

Planning Process (continued)		Location in Plan	Met	Not Met
P7.	Does the LMS describe the review and incorporation of existing plans, studies, reports, and technical information?	Section 3 - 48, Appendix C provides links to additional documents that supported the project or were ongoing during the plan but discussed		X
<u>Reviewer Comments:</u>				
Required Revisions: Section 3 provides a description of plans that were surveyed, but it is very general. How did you actually review these plans, who reviewed them, what parts were used to incorporate into the LMS?				

Hazard Risk and Vulnerability Assessment		Location in Plan	Met	Not Met
R1.	Does the Plan include a <i>general description</i> of all natural hazards that can affect each jurisdiction?	Section 4 - Risk Assessment	X	
R2.	Does the Plan provide rationale for the omission of any natural hazards that are commonly recognized to affect the jurisdiction(s) in the planning area?	All hazards recognized to affect the jurisdiction are included in the plan	X	
<u>Reviewer Comments:</u>				
Required Revisions:				

Hazard Risk and Vulnerability Assessment (cont)		Location in Plan	Met	Not Met
R3.	Does the Plan include a description of the <i>location</i> for all natural hazards that can affect each jurisdiction?	Section 4 - Risk Assessment		X
<u>Reviewer Comments:</u>				
Required Revisions: Specify the jurisdictions for wildfire.				

Hazard Risk and Vulnerability Assessment (cont)		Location in Plan	Met	Not Met
R4.	Does the Plan include a description of the <i>extent</i> for all natural hazards that can affect each jurisdiction?	Section 4 - Risk Assessment	X	
<u>Reviewer Comments:</u>				
<u>Required Revisions:</u>				

Hazard Risk and Vulnerability Assessment (cont)		Location in Plan	Met	Not Met
R5.	Does the Plan include information on <i>previous occurrences</i> of hazard events for each jurisdiction?	Section 4 - Risk Assessment	X	
<u>Reviewer Comments:</u>				
<u>Required Revisions:</u>				

Hazard Risk and Vulnerability Assessment (cont)		Location in Plan	Met	Not Met
R6.	Does the Plan include information on the <i>probability</i> of future hazard events for each jurisdiction?	Section 4 - Risk Assessment	X	
<u>Reviewer Comments:</u>				
<u>Required Revisions:</u>				

Hazard Risk and Vulnerability Assessment (cont)		Location in Plan	Met	Not Met
R7.	Is there a description of each hazard's <i>impacts</i> on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)? Does this also include a list of critical facilities to remain open during times of a disaster?	Section 4 - Risk Assessment		X
<u>Reviewer Comments:</u>				
Required Revisions: Specify the jurisdictions for impacts. This can be done with a brief sentence above each impact analysis detail which jurisdictions the listed impacts apply to. If they apply to all jurisdictions, you can state that.				

Hazard Risk and Vulnerability Assessment (cont)		Location in Plan	Met	Not Met
R8.	Is there a description of each identified hazard's <i>overall vulnerability</i> (structures, systems, populations or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction?	Section 4 - Risk Assessment	X	
<u>Reviewer Comments:</u>				
Required Revisions:				

Hazard Risk and Vulnerability Assessment (cont)		Location in Plan	Met	Not Met
R9.	Does the Plan describe the type (residential, commercial, institutional, etc.) and number of FEMA repetitive loss properties within each jurisdiction?	Section 4 - Risk Assessment; RL properties in tables 4.13 and 4.14 (88)	X	
<u>Reviewer Comments:</u>				
Required Revisions:				

Mitigation Strategy		Location in Plan	Met	Not Met
S1.	Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards?	40 (Table 3.1)	X	
Reviewer Comments: The plan provies a list of broad and acheivable goals.				
Required Revisions:				

Mitigation Strategy (continued)		Location in Plan	Met	Not Met
S2.	Does the plan document each jurisdiction’s existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs?	47	X	
Reviewer Comments: The plan discusses each jurisdiction's existing authorities and how gaps can be filled to improve these established plans.				
Required Revisions:				

Mitigation Strategy (continued)		Location in Plan	Met	Not Met
S3.	Does the Plan address whether or not each jurisdiction participates in the National Flood Insurance Program (NFIP) and how they will continue to comply with NFIP requirements?	Section 3 - Mitigation Strategy (Floodplain Management Subsection; 51)	X	
Reviewer Comments: On p. 51 it is stated that all jurisdiction participate in the NFIP and there is a detailed list of how they will continue to comply with their standards.				
Required Revisions:				

Mitigation Strategy (continued)		Location in Plan	Met	Not Met
S4.	Does the Plan identify and analyze a comprehensive range (different alternatives) of specific mitigation actions and projects to reduce the impacts from hazards?	Section 3 - Mitigation Strategy; Appendix I - Mitigation Initiatives	X	
Reviewer Comments: Appendix I provides a list of mitigation actions				
Required Revisions:				

Mitigation Strategy (continued)		Location in Plan	Met	Not Met
S5.	Does the Plan identify mitigation actions for every hazard posing a threat to each participating jurisdiction?	Appendix D - Mitigation Actions	X	
Reviewer Comments: Appendix D includes mitigation actions for every hazard and in every jurisdiction.				
Required Revisions:				

Mitigation Strategy (continued)		Location in Plan	Met	Not Met
S6.	Do the identified mitigation actions and projects have an emphasis on new and existing buildings and infrastructure?	Appendix D - Mitigation Actions	X	
S7.	Does the Plan explain how the mitigation actions and projects will be prioritized (including cost benefit review)?	Section 3 - Mitigation Strategy; Appendix D - Mitigation Actions; Section 2 - Planning Process and Maintenance (Step 2) - 25		X
S8.	Does the Plan identify the position, office, department, or agency responsible for implementing and administering the action/project, estimated cost, potential funding sources and expected timeframes for completion?	Appendix D - Mitigation Actions	X	
Reviewer Comments: S6) The project list includes projects on new and existing structures. S8) The project list includes who is responsible for facilitating the projects, costs and funding sources, as well as expected timeframes.				

Required Revisions: S7) You almost have this met in Section 2. Could you go into a little further detail of the scoring criteria? Be sure to include the cost benefit review. You do not need to detail it, just state that you will be using one.

Mitigation Strategy (continued)		Location in Plan	Met	Not Met
S9.	Does the LMS identify the local planning mechanisms where hazard mitigation information and/or actions may be incorporated?	Section 3 - Mitigation Strategy; Capability Assessment and Implementation (subsections); 49	X	
S10.	Does the plan describe each community's process to integrate the data, information, and hazard mitigation goals and actions into other planning mechanisms?	Section 3 - Mitigation Strategy; Capability Assessment and Implementation (subsections); 47; 58		X
S11.	The updated plan must explain how the jurisdiction(s) incorporated the mitigation plan, when appropriate, into other planning mechanisms as a demonstration of progress in local hazard mitigation efforts.	Section 3 - Mitigation Strategy; Capability Assessment and Implementation (subsections); Introduction (Purpose - Subsection)	X	
<p>Reviewer Comments: S9) The capability assessment and implementation sections detail which local planning mechanisms may be incorporated and how. S11) met on pages 49-53, could be strengthened, it doesn't specifically say the LMS was integrated, just that those plans are related because they may also achieve risk reduction</p>				
<p>Required Revisions: S10) How will each community integrate the LMS into their respective plans? S11) State where the LMS has already been incorporated in the past.</p>				

Plan Evaluation and Maintenance		Location in Plan	Met	Not Met
M1.	Was the plan revised to reflect changes in development?	Sections 1, 2, 3, 4 all cover this with respect to their subject matter. Intro page 1-16 covers this broadly and then it is itemized specific to the hazard profiles in Section 4 and again broadly discussed in Sections 2 and 3. (69-80)	X	
M2.	Was the plan revised to reflect progress in local mitigation efforts? (Were projects completed, deleted or deferred and why if they were deleted or deferred?)	Appendix D - Mitigation Actions	X	
M3.	Was the plan revised to reflect changes in priorities since the plan was previously approved?	Section 3 - Mitigation Strategy provides new goals and directives to reflect		X
<p>Reviewer Comments: M1) Section 4 goes detail about changes in development since the last plan update. The use of maps and charts helps to illustrate how much the county has grown. M2) Project status is included with the project list including reasons why projects have not been completed.</p>				
<p>Required Revisions: M1) A narrative in the introduction of Section 4 might help strengthen it a little more M3) On 2-6 it is stated that the LMS has been updated to reflect changes in priorities. Just describe how the priorities have changed since the last update.</p>				

Plan Evaluation and Maintenance (continued)		Location in Plan	Met	Not Met
M4.	Does the plan identify how, when, and by whom the plan will be monitored (how will implementation be tracked) over time?	36	X	
M5.	Does the plan identify how, when, and by whom the plan will be evaluated (assessing the effectiveness of the plan at achieving stated purpose and goals) over time?	39	X	
M6.	Does the plan identify how, when, and by whom the plan will be updated during the 5-year cycle?	38	X	
Reviewer Comments: M4) It is clearly stated in Section 2 that the LMS Chair will monitor the plan and can call for special meetings. Additionally, any Working Group member may call a special meeting. M5) The plan states that evaluations will be conducted by the Working Group with their recommendations being approved by the Steering Committee. <i>Could a little more be discussed about the evaluation process?</i> M6) The plan goes into excellent detail about the update process during the 5-year cycle.				
Required Revisions:				

Plan Evaluation and Maintenance (continued)		Location in Plan	Met	Not Met
M7.	Is there discussion of how the community(ies) will continue public participation in the plan maintenance process?	Section 2 - Planning Process and Plan Maintenance (Step 10 subsection).	X	
Reviewer Comments: Public participation will be encouraged through notices on the county's website as well as by sending information to expos and neighborhoods.				
Required Revisions:				

Plan Adoption		Location in Plan	Met	Not Met
A1.	Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval?	Appendix F and Executive Summary		X
A2.	For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption?	Appendix F		X
Reviewer Comments:				

Required Revisions:

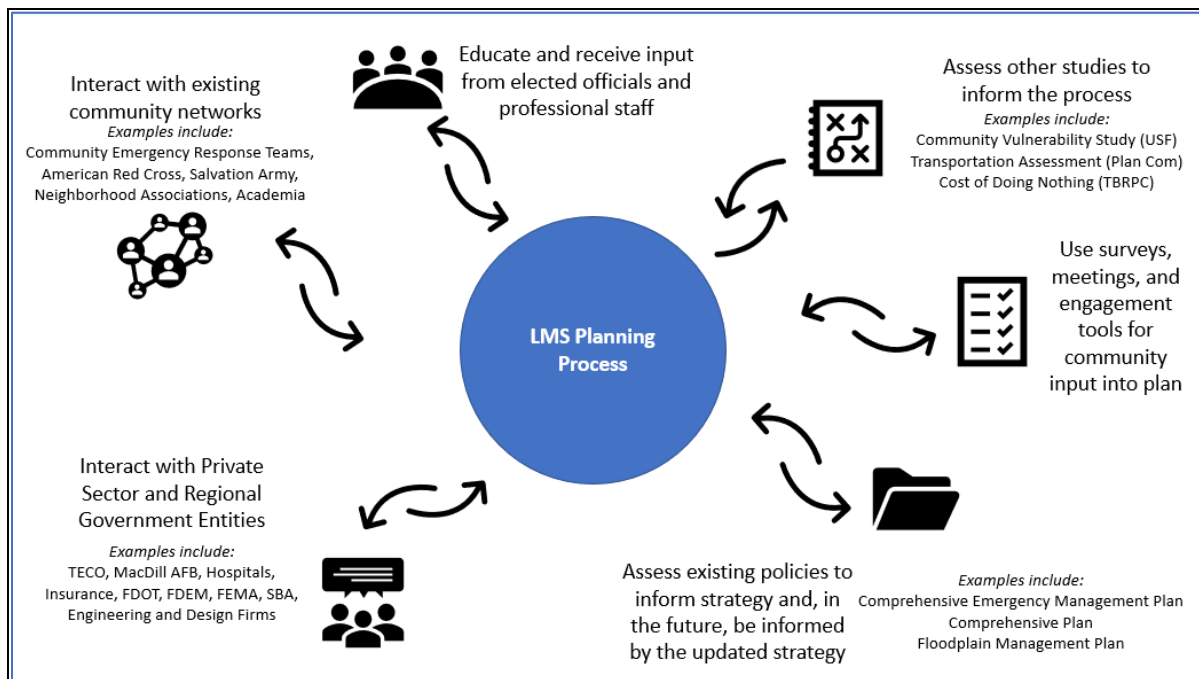
Hillsborough LMS Revision Notes

P7- Required Revisions: Section 3 provides a description of plans that were surveyed, but it is very general. How did you actually review these plans, who reviewed them, what parts were used to incorporate into the LMS?

Response:

Narrative and graphic were added in the Planning Process (page 2-8): *During the overall LMS Planning Process and numerous meetings of the LMS WG, the relationships between community networks, the private sector, regional government entities were fostered to include other studies and inform the process and strategy development. The county LMS Planning Process elements and integration are clearly outlined in Figure 2.1 below.*

Figure 2.1 Hillsborough County LMS Planning Process



Narrative added in the Planning Process (page 2-9): *As an example of how other plans and processes informed the plan, the September 2019 meeting of the LMG WG focused on Strategy and Potential Projects. During the meeting, a presentation of the overall effort from USF on the Community Vulnerability Study and the mitigation approaches for flood was given. A discussion amongst the LMS WG ensued and the possible mitigation ideas were extracted to be included in the overall mitigation strategy within the plan.*

Narrative added in the Mitigation Strategy (page 3-19): *A full comparison, alignment, and assimilation was done between the CEMP and the updated risk assessment of the LMS. An analysis of the identified hazards within the county's previous LMS, the Office of Emergency Management's (OEM) hazards within the newly revised CEMP, and the State Hazard Mitigation Plan's list of hazards was performed and the*

results were incorporated into the new LMS plan through a crosswalk process. OEM provided feedback on the hazards and the necessity to include very specific hazards for the geographic area and historical events within the county. Adjustments were made accordingly to both plans for complete integration.

R3- Required Revisions: Specify the jurisdictions for wildfire.

- **Just provide a quick narrative detailing the jurisdictions that are susceptible to wildfires.**

Response:

Narrative added to Risk Assessment (page 4-187): 2. *Geographic Areas Affected by Wildfire, “All of the jurisdictions, Hillsborough County, the City of Plant City, the City of Tampa, and the City of Temple Terrace, are susceptible to wildfires and the potential impacts. Woodlands and timberlands are clearly vulnerable to wildfires with higher relative impacts in Plant City compared to the other jurisdictions.”*

R7- Required Revisions: Specify the jurisdictions for impacts. This can be done with a brief sentence above each impact analysis that details which jurisdictions the listed impacts apply to.

Response:

Narrative was added to Risk Assessment (page 4-50): *The following statement was added to the beginning of #5 Flood Impact Analysis, “All communities in Hillsborough County could receive the impacts listed below due to flooding. Variable climate impacts are likely to worsen exposure for coastal communities, but inland communities could also be impacted by more frequent, and higher volume precipitation events.”*

Narrative was added to Risk Assessment (page 4-89): *The following text was added to the beginning of #5 Tropical Cyclone Impact Analysis, “Portions of the City of Tampa and Unincorporated Hillsborough County face potential storm surge conditions in addition to winds. The inland portions of those jurisdictions as well as Plant City and Temple Terrace could be devastated by wind impacts. All jurisdictions could receive some or all of the following impacts due to tropical cyclones.”*

Narrative was added to Risk Assessment (page 4-163): *The following statement was added to the beginning of #5 Severe Storms Impact Analysis, “All jurisdictions could receive the impacts listed below due to severe storms. Variances in how much damage these storms generate within each community would be dependent upon severity of storms, maintenance of vegetation and infrastructure, and strength of residential and commercial structures.”*

Narrative was added to Risk Assessment (page 4-182): *The following statement was added to the beginning of #5 Tornado Impact Analysis, “All jurisdictions could receive the impacts listed below due to tornadoes. Variances in how much damage these storms generate within each community would be dependent upon the magnitude of the tornado and the strength of residential and commercial structures.”*

Narrative was added to Risk Assessment (page 4-197): *The following statement was added to the beginning of #5 Wildfire Impact Analysis, “All jurisdictions could receive the impacts listed below due to wildfire. Wildfire impacts may be higher in Plant City where a higher proportion of the community is*

susceptible to wildfire than the other jurisdictions which are considered to have moderate impacts as noted in Table 4.4: Hazard Vulnerability by Jurisdiction.”

Narrative was added to Risk Assessment (page 4-210): *The following statement was added to the beginning of #5 Erosion Impact Analysis, “The City of Tampa and the unincorporated coastline could feel high impacts due to coastal erosion. The County as a whole could suffer moderate impacts and the level of impacts would be much lower for Temple Terrace and Plant City due to being located further inland.”*

Narrative was added to Risk Assessment (page 4-219): *The following statement was added to the beginning of #5 Extreme Heat Impact Analysis, “All jurisdictions could receive the impacts listed below due to extreme heat. Portions of these communities with high concentrations of senior residents and very young individuals could be the most at risk.”*

Narrative was added to Risk Assessment (page 4-231): *The following statement was added to the beginning of #5 Drought Impact Analysis, “All jurisdictions could receive the impacts listed below due to drought. As Hillsborough County continues to develop with higher populations and higher water demands, drought conditions and drier trends may begin to have a profound impact countywide on its residents.”*

Narrative was added to Risk Assessment (page 4-245): *The following statement was added to the beginning of #5 Suspect Soil Impact Analysis, “All jurisdictions could receive the impacts listed below due to suspect soils. As the county’s population increases, the potential for individuals to be negatively impacted by suspect soils increases because more people will live in locations that are favorable for land subsidence.”*

Narrative was added to Risk Assessment (page 4-255): *The following statement was added to the beginning of #5 Winter Storm and Freeze Impact Analysis, “All jurisdictions could receive the following impacts due to winter storm and freeze.”*

Narrative was added to Risk Assessment (page 4-265): *The following statement was added to the beginning of #5 Seismic Events Impact Analysis, “All jurisdictions could receive the following impacts due to seismic events.”*

Narrative was added to Risk Assessment (page 4-271): *The following statement was added to the beginning of #5 Tsunami Impact Analysis, “The City of Tampa as well as the unincorporated county could suffer the impacts listed below due to tsunami. The cities of Temple Terrace and Plant City are inland and thus would be less likely to receive an impact.”*

S7- Required Revisions: You almost have this met in Section 2. Could you go into a little further detail of the scoring criteria?

- **Be sure to include the cost benefit review. It doesn’t need to be detailed, just state that you will be using one.**

Response:

Narrative was added to the Planning Process (page 2-11): *The potential projects were evaluated with two specific sets of criteria. One component was the project evaluation worksheet that detailed the*

project description, the proposed mitigation measure, and then weighed the measure for alignment with goals and objectives within the LMS strategy and related policies. The other component for project evaluation is assessing the social cost-benefit factor which provides an equation to weigh the project's expected benefit relative to the proportion of the municipality (or entity) that it serves. This provides a level of equity for smaller jurisdictions who may have smaller-scaled projects that provide a greater proportional benefit to their community. Ultimately, the two components are used in conjunction to prioritize projects that are cost-beneficial, technically feasible, and environmentally sound. Each applicant will typically present an overview of the proposed measure and their scoring during an LMS meeting where the membership can ask further questions about the project and its evaluation before it gets approved and added to the active list of projects.

S10- Required Revisions: How will each community integrate the LMS into their respective plans?

- **Provide a little more detail into this process to meet the requirement**

Response:

Narrative was added to Mitigation Strategy (originally page 3-18; now page 3-19 after adding other revisions): *All jurisdictions utilize the LMS and embedded floodplain management practices to inform their planning efforts for their CRS program to maintain their class status. Each jurisdiction independently reviews the strategy to determine what elements will inform the planning processes for their individual comprehensive plans. The floodplain management information within the LMS strategies, as well as the best practices conveyed during regular meetings of the LMS WG, are used to guide the floodplain management policies and how those policies are applied locally for development and permitting.*

Further, the new LMS will inform the jurisdictions regarding future policy directives for emergency management response and recovery as well as informing the communities on how to utilize resources appropriately. Communities are evaluating how the LMS can factor into the assessment of appropriate infrastructure projects to implement based on the risk assessment and the outlined mitigation actions to pursue with their CIP and grant resources.

S11- State where the LMS has already been incorporated in the past

- **S11 already meets the requirements, but this may strengthen it a little more**

Response:

Narrative was added to Mitigation Strategy (page 3-18): *In the past, the County and its municipalities have utilized the LMS and embedded floodplain management practices to inform their planning efforts for their CRS program to maintain their class status. Communities have also utilized the risk assessment to inform the planning processes for their individual comprehensive plans, particularly policies related to land use, environmental resources, and public infrastructure.*

Further, LMS's risk assessment continues to inform the County's Comprehensive Emergency Management Plan to guide emergency management mitigation, response, and recovery. The LMS strategy process has also supported collaborative efforts such as the Post-Disaster Recovery Plan, where LMS WG members (private and public sector representatives) have served as leads for Technical Advisory Committees.

M1- A narrative in the introduction of Section 4 might help strengthen it a little more

- **Like S11, this one is also met**

Potential Response: We are not exactly sure what this is referring to as there is an introduction in Section 4. Maybe FDEM means Section 3. This item shows as met in the cross-walk so the response is low priority compared to others, but we can add some clarity to the document upon further discussion with FDEM, if necessary.

M3- On 2-6 it is stated that the LMS has been updated to reflect changes in priorities. Just describe how the priorities have changed since the last update.

Response:

Narrative added to Mitigation Strategy (Page 3-2): *The priority changes for the County as a whole shifted somewhat to focus area goals underneath the overall goal of the LMS which is to establish and maintain an ongoing process that continually assesses potential disasters, develops corresponding mitigation techniques, and incorporates preparedness and response into the consciousness of the entire community.*

There were 18 focused directives were developed across the 4 objective areas. For each directive, a description of the activity was created as well as a type of metric to begin measuring progress.

The four objective areas are:

1. *Improved Human Environment (People and Businesses) – Provide guidance on activities that protect and improve the quality of life and standard of living for residents and businesses. Specific actions are intended to focus on education, safety, health, and finances that reduce social vulnerability and improve business retention.*
2. *Improved Built Environment (Housing, Commercial Facilities, and Infrastructure) – Provide guidance on activities that improve levels of service through risk assessments, assess benefits of development/retrofits in low-risk areas, and consider higher standards.*
3. *Improved Natural Environment (Land, Vegetation, Animals) – Provide guidance on activities that promote natural and beneficial functions of floodplains, consider natural protection measures, and support healthy air and water quality for people and animals.*
4. *Resiliently Designed Environments (Strengthened Human, Built, and Natural Environments) – Provide guidance on activities that integrate lessons learned and best practices, while considering current and future hazard vulnerabilities, to provide a more disaster-resilient community.*

The table below (Table 3.1: Hillsborough County Goals and Directives) clearly outlines the County's focused goals, their associated directives, and the related strategic measures for each directive. These priorities were identified and discussed during a series of meetings of the LMS Working Group in January and February of 2020. The finalized list of new directives was approved by the LMS Working Group for inclusion in the update.

APPENDIX F – PLAN ADOPTION

Local Hazard Mitigation Plan Requirements
E1. Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? [44 CFR 201.6(c)(5)]
E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal adoption? [44 CFR 201.6(c)(5)]

This appendix includes the FEMA APA Letter and local adoption resolutions for each of the participating jurisdictions. Additional materials (summary of key revisions and a presentation for local officials) are included to help decision makers as they adopt the updated strategy document.

Jurisdiction	Date of Adoption
City of Plant City	July 27, 2020
City of Tampa	August 6, 2020
City of Temple Terrace	June 16, 2020
Unincorporated Hillsborough County	July 15, 2020



FEMA

August 19, 2020

Mr. Miles Anderson
State Hazard Mitigation Officer
Division of Emergency Management
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

Reference: Local Mitigation Strategy: Hillsborough County

Dear Mr. Anderson:

We are pleased to inform you that the Hillsborough County, FL Local Mitigation Strategy (LMS) Plan Update is in compliance with the Federal hazard mitigation planning requirements resulting from the Disaster Mitigation Act of 2000 as contained in 44 CFR 201.6. This plan is approved for a period of five (5) years to July 27, 2025. This letter is to confirm that the following jurisdictions are approved under the Hillsborough County, FL Local Mitigation Strategy Update in accordance with Program Administration by States (PAS) requirements, effective July 27, 2020 as follows:

Submitted and originally approved as of July 27, 2020 which established the five-year period for the Plan:

- City of Temple Terrace

Jurisdictions added as of August 19, 2020:

- Hillsborough County, Unincorporated
- City of Plant City
- City of Tampa

The approved participating jurisdictions are hereby eligible applicants through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Pre-Disaster Mitigation (PDM)
- Flood Mitigation Assistance (FMA)

National Flood Insurance Program (NFIP) participation is required for some programs.

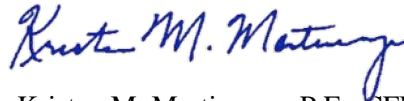
We commend the participants in the Hillsborough County, FL LMS Plan Update for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the particular program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA

funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the aforementioned programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included in a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development. When you prepare a comprehensive plan update, it must be resubmitted through the State as a “plan update” and is subject to a formal review and approval process by our office. If the plan is not updated prior to the required five (5) year update, please ensure that the draft update is submitted at least six (6) months prior to expiration of this plan approval.

The State and the participants in the Hillsborough County, FL LMS should be commended for their close coordination and communications with our office in the review and subsequent approval of the plan. If you or Hillsborough County have any questions or need any additional information, please do not hesitate to contact Gabriela Vigo, of the Hazard Mitigation Assistance Branch, at (229) 225-4546 or Darlene Booker, of my staff, at (770) 220-5404.

Sincerely,

A handwritten signature in blue ink that reads "Kristen M. Martinenza". The signature is written in a cursive style with a large initial 'K'.

Kristen M. Martinenza, P.E., CFM
Branch Chief
Risk Analysis
FEMA Region IV



STATE OF FLORIDA

DIVISION OF EMERGENCY MANAGEMENT

Ron DeSantis
Governor

Jared Moskowitz
Director

August 24, 2020

Timothy Dudley Jr., FPEM, Director
Hillsborough County Emergency Management
9450 E. Columbus Dr.
Tampa, Florida 33619

Re: Local Hazard Mitigation Plan Approval Notification

Dear Director Dudley,

Congratulations! The enclosed letter constitutes the Federal Emergency Management Agency's (FEMA) formal approval of the Hillsborough County Local Mitigation Strategy (LMS) plan for the following participating jurisdictions:

Hillsborough County, Unincorporated
City of Plant City
City of Tampa

The plan has been approved for a period of five (5) years and will expire again on July 27, 2025.

The Mitigation Planning Unit would like to thank you for all of your hard work. It has been a pleasure working with you and we look forward to serving you in the future. If you have any questions regarding this matter, please contact your LMS Liaison Dan Curcio at Daniel.Curcio@em.myflorida.com or 850-815-4504.

Respectfully,

Miles E. Anderson,
Bureau Chief, Mitigation
State Hazard Mitigation Officer

MEA/dc

Attachments: 08/19/20 FEMA Approval Letter for Hillsborough County, Unincorporated

R20-053

RESOLUTION

R20-053

RESOLUTION NO. R20-053

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF HILLSBOROUGH COUNTY, FLORIDA, TO ADOPT THE 2020 UPDATE TO THE COUNTYWIDE LOCAL MITIGATION STRATEGY.

Upon motion by Stacy White, seconded by Kimberly Overman, the following Resolution was approved by a vote of 7 to 0.

WHEREAS, Hillsborough County is located in an area that is vulnerable to natural and man-made disasters; and

WHEREAS, pursuant to federal and state law, a Local Mitigation Strategy (LMS) is a plan that presents a unified strategy toward reducing identified hazards within a community; and

WHEREAS, Title 42 United States Code Chapter 68 requires local governments to develop mitigation plans outlining processes for identifying natural hazards, risks and vulnerabilities that may affect their jurisdictions; and

WHEREAS, Chapter 44 Code of Federal Regulations Part 201 requires that local governments prepare and adopt a jurisdiction-wide natural hazard mitigation plan; and requires them to review and update said plan every five years in order to be eligible to receive project grant funds under the Hazard Mitigation Grant Program ("HMGP"); and

WHEREAS, on August 18, 1999, the Board of County Commissioners adopted a resolution approving the County's first LMS for Hillsborough County and the cities of Plant City, Tampa, and Temple Terrace; and

WHEREAS, in accordance with Chapter 27P-22 of the Florida Administrative Code ("FAC"), the county-wide LMS 2020 Update sets forth the method for monitoring and evaluating changes to hazard assessments, the project priority list, the critical facilities list, the repetitive flood-loss list, and map revisions; and

WHEREAS, the LMS is updated annually and sent to the Florida Division of Emergency Management ("FDEM") pursuant to Chapter 27P-22, FAC; and

WHEREAS, the LMS 2020 Update has been prepared pursuant to 44 Code of Federal Regulations Part 201; and

WHEREAS, the LMS 2020 Update has received the conditional approval by the Federal Emergency Management Agency ("FEMA") and the FDEM; and

WHEREAS, the State and Federal conditional approval of the LMS 2020 Update will become final upon adoption by the Board of County Commissioners; and

WHEREAS, the FEMA operates the National Flood Insurance Program (“NFIP”); and

WHEREAS, the LMS 2020 Update addresses hazard mitigation concerns from the standpoint of Hillsborough County’s participation in the NFIP; and

WHEREAS, the LMS 2020 Update continues to serve as the floodplain management plan and to address repetitive flood loss properties; and

WHEREAS, the LMS 2020 update may require future amendments to address changes in Federal floodplain regulations or programs; and

WHEREAS, the NFIP’s Community Rating System (“CRS”) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements; and

WHEREAS, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions which meet the CRS’s goals of flood loss reduction, accurate insurance rate facilitation and the promotion of the awareness of flood insurance; and

WHEREAS, the LMS 2020 Update serves as a guidance for the Hillsborough County Post-Disaster Redevelopment Plan; and

WHEREAS, the LMS 2020 Update works in concert with Chapter 22, Article III, Hillsborough County Code of Ordinances, Part A, which establishes mitigation efforts following a storm event; and

WHEREAS, the LMS Working Group is required by Chapter 27P-22, FAC and has a membership which is approved annually by the Board of County Commissioners; and

WHEREAS, the LMS 2020 Update incorporates the local Citizen Corps Council membership into the LMS process; and

WHEREAS, public meetings were held to receive public comment and recommendations for the LMS 2020 Update; and

WHEREAS, the LMS 2020 Update was developed by Hillsborough County, the City of Plant City, the City of Tampa, the City of Temple Terrace, community interests, stakeholders, and the communitywide Local Mitigation Strategy Working Group; and

WHEREAS, the proposed LMS 2020 Update has been filed with the Ex-Officio Clerk of the Board of County Commissioners of Hillsborough County, Florida, and by this reference is made a part hereof; and

NOW, THEREFORE, BE IT RESOLVED, that the Hillsborough County Board of County Commissioners in a meeting held this 15 th day of July, 2020:

1. That the Local Mitigation Strategy 2020 Update, attached hereto by reference as Exhibit "A", is hereby adopted.
2. That the Local Mitigation Strategy 2020 Update shall be forwarded to the City of Plant City, the City of Tampa, and the City of Temple Terrace for consideration.
3. That this resolution shall take effect immediately upon adoption.

STATE OF FLORIDA)
)
COUNTY OF HILLSBOROUGH)

I, Pat Frank, Clerk of the Circuit Court and Ex Officio Clerk of the Board of County Commissioners of Hillsborough County, Florida do hereby certify that the above and foregoing is a true and correct copy of a resolution adopted by the Board at its regular meeting of July 15, 2020, as the same appears in Minute Book 530 of the Public Records of Hillsborough County, Florida.

WITNESS my hand and official seal this 22nd day of July, 2020.

PAT FRANK, CLERK



By: *Patricia Smith*
Deputy Clerk

Approved as to form and legal sufficiency

By: *Vivian Arenas-Battles*
Senior Assistant County Attorney

RESOLUTION NO. 134-2020

A RESOLUTION OF THE CITY OF PLANT CITY, FLORIDA ADOPTING THE 2020 UPDATE TO THE LOCAL MITIGATION STRATEGY.

WHEREAS, City of Plant City is located in an area that is vulnerable to natural and manmade disasters; and

WHEREAS, pursuant to Federal and State law, a local mitigation strategy (“LMS”) is a plan which presents a unified strategy toward building a disaster-resilient community; and

WHEREAS, Title 42 United State Code Chapter 68 requires local governments to develop mitigation plans outlining processes for identifying natural hazards, risks and vulnerabilities that may affect their jurisdictions; and

WHEREAS, Chapter 44 Code of Federal Regulations Part 201 requires that local governments prepare and adopt a jurisdiction-wide natural hazard mitigation plan; and requires them to review and update said plan every five years in order to be eligible to receive project grant funds under the Hazard Mitigation Grant Program; and

WHEREAS, on October 25, 1999, the City Commission adopted Resolution No. 148-1999, supporting and adopting the first county-wide LMS for Hillsborough County; and

WHEREAS, on January 11, 2016, the City Commission adopted Resolution No. 5-2016, supporting and adopting the LMS 2015 Update; and

WHEREAS, the LMS 2020 Update was developed by Hillsborough County, the City of Plant City, the City of Tampa, the City of Temple Terrace, community interests, stakeholders, and the communitywide Local Mitigation Strategy Working Group; and

WHEREAS, the LMS 2020 Update has received conditional approvals by the Florida Division of Emergency Management (DEM) and will be forwarded to the Federal Emergency

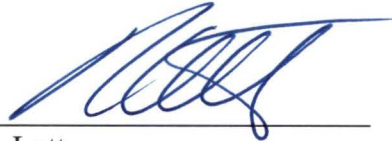
Management Agency (FEMA) upon adoption by Hillsborough County, the City of Plant City, and the City of Temple Terrace; now, therefore

BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF PLANT CITY, FLORIDA:

Section 1. The Local Mitigation Strategy 2020 Update, a copy of which is on file with City Clerk, is hereby adopted.

Section 2. This resolution shall be effective immediately upon passage.

Adopted by the City Commission on July 27, 2020.




Rick A. Lott
Mayor-Commissioner

ATTEST:



Kerri J. Miller
City Clerk

Approved as to form and correctness:



Kenneth W. Buchman
City Attorney

MSB

RESOLUTION NO. 2020-470

A RESOLUTION ADOPTING THE HILLSBOROUGH COUNTY MULTI-JURISDICTIONAL LOCAL MITIGATION STRATEGY 2020 PLAN UPDATE BETWEEN HILLSBOROUGH COUNTY, THE CITY OF TAMPA, THE CITY OF TEMPLE TERRACE AND THE CITY OF PLANT CITY; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Tampa and Hillsborough County are located in an area that is vulnerable to natural and manmade disasters; and

WHEREAS, pursuant to federal and state law, a local mitigation strategy ("LMS") is a plan which presents a unified strategy toward building a disaster resilient community; and

WHEREAS, Title 42 United States Code Chapter 68, requires local governments to develop mitigation plans outlining processes for identifying natural hazards, risks and vulnerabilities that may affect their jurisdictions; and

WHEREAS, the Disaster Mitigation Act of 2000 (the "Act") requires each local jurisdiction to have either its own LMS plan or to actively participate in the development and maintenance of multi-jurisdictional mitigation plans; and

WHEREAS, the Act has significantly expanded the mitigation planning requirements imposed on both the state and local jurisdictions in order to maintain eligibility for federal mitigation funds; and

WHEREAS, 44 CFR Sec. 201.6(d)(3) provides that "(a) local jurisdiction must review and revise its plan to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit it for approval within 5 years in order to continue to be eligible for mitigation project grant funding."; and

WHEREAS, on October 21, 2004, the City Council of the City of Tampa adopted Resolution No. 2004-1426, which approved a County-Wide Local Mitigation Strategy; and

WHEREAS, on July 15, 2010, the City Council of the City of Tampa adopted Resolution No. 2010-614, which approved an update to the County-Wide Local Mitigation Strategy; and

WHEREAS, on February 4, 2016, the City Council of the City of Tampa adopted Resolution No. 2016-98, which approved an update to the County-Wide Local Mitigation Strategy; and

WHEREAS, the required update resulted in comprehensive revisions including but not limited to revisions to the Mitigation Strategy Section, the Risk Assessment Section and Appendices A through D ("2020 LMS Plan Update" or "Plan"); and

WHEREAS, after the 2020 LMS Plan Update underwent final revisions, and the Plan was completed to the satisfaction of the State Hazard Mitigation Office (SHMO) which reviews the Plan for completion on behalf of the Federal Emergency Management Agency, the Plan was

F2020-199

officially adopted by Hillsborough County on July 15, 2020, pursuant to Resolution No. R20-053.

WHEREAS, the 2020 LMS Plan Update has been forwarded to the City of Tampa for similar action and the City of Tampa desires to continue to be involved in a county-wide mitigation strategy with Hillsborough County, the City of Temple Terrace and the City of Plant City.

NOW, THEREFORE,

**BE IT RESOLVED BY THE CITY COUNCIL
OF THE CITY OF TAMPA, FLORIDA:**

Section 1. That the Hillsborough County Multi-Jurisdictional Local Mitigation Strategy 2020 Plan between Hillsborough County and the cities of Tampa, Temple Terrace and Plant City, on file with the Office of the City Clerk and by reference made a part hereof, is hereby approved in its entirety or in a substantially similar form.

Section 2. That other proper officers of the City of Tampa are authorized to do all things necessary and proper in order to carry out and make effective the provisions of this Resolution.

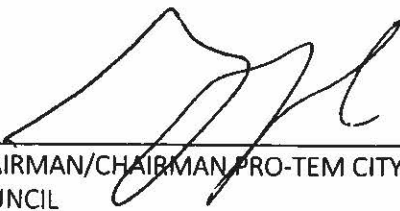
Section 3. That this Resolution shall take effect immediately upon its adoption.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF TAMPA, FLORIDA, ON

AUG 06 2020

ATTEST:


CITY CLERK / ~~DEPUTY CITY CLERK~~


CHAIRMAN/CHAIRMAN PRO-TEM CITY
COUNCIL

PREPARED AND APPROVED AS TO
LEGAL SUFFICIENCY BY:

E/S
CATE WELLS
CHIEF ASSISTANT CITY ATTORNEY

RESOLUTION 67-20

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF TEMPLE TERRACE, FLORIDA, ADOPTING THE COUNTY-WIDE LOCAL MITIGATION STRATEGY.

WHEREAS, State, local and tribal governments are required by Federal law (Title 42, Part 68 of the United States Code and Title 44, Part 201 of the Code of Federal Regulations) to adopt a hazard-mitigation plan as a condition for receiving certain types of emergency or non-emergency disaster assistance; and

WHEREAS, the hazard-mitigation plan is a long-term strategy for reducing disaster losses and is referred to within Hillsborough County as the Local Mitigation Strategy (LMS). The LMS planning process began in 1998 when the County and its jurisdictions integrated mitigation with day-to-day decision making regarding pre- and post-disaster planning, floodplain management, site-design, and other functions; and

WHEREAS, member agencies must re-adopt the LMS every five years; and

WHEREAS, the City of Temple Terrace has been a participant of the LMS Working Group, comprised of representatives from Hillsborough County and the Cities of Plant City and Tampa, since 1998. The Group meets routinely to identify potential hazards throughout Hillsborough County, assess areas vulnerable to various hazards, and identify possible actions to mitigate future damage. After the initial adoption of the first LMS on September 23, 1999, the City adopted subsequent five-year updates on November 2, 2004, July 6, 2010, and August 18, 2015; and

WHEREAS, adoption of five-year updates is required for a community to meet Federal standards and to remain eligible for grants associated with Severe Repetitive Loss, Repetitive Flood Claims, Pre-Disaster Mitigation, Hazard Mitigation Grant Program, and Flood Mitigation Assistance; and

WHEREAS, the State of Florida Division of Emergency Management has reviewed the 2020 Hillsborough County Local Hazard Mitigation update for compliance with the federal hazard mitigation planning standards contained in 44 CFR 201.6(b)-(d) and found Hillsborough County developed and submitted all the necessary plan revisions; and

WHEREAS, the Goal of the LMS is to minimize the effects of any potential natural or man-made disasters on our community and its infrastructure. The current County-wide LMS plan contains a list of proposed projects to accomplish the plan's goals.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF TEMPLE TERRACE, that:

City Council adopts the five-year update to the Local Mitigation Strategy, identifying and prioritizing hazard mitigation projects.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF TEMPLE TERRACE, FLORIDA, this 16th day of June 2020.

(Corporate Seal)



X

A handwritten signature in blue ink, appearing to read "Andrew Ross", is written over a light gray rectangular background.

Andrew Ross, Acting Mayor
Chair of the City Council
Signed by: City Clerk

Attest:

X

A handwritten signature in black ink, appearing to read "Cheryl A. Mooney", is written over a light gray rectangular background.

Cheryl A. Mooney
City Clerk
Signed by: City Clerk

Hillsborough County Multi-jurisdictional Local Mitigation Strategy - 2020 Update

Revisions Summary

- Formatted the overall LMS Plan to emulate the Florida Division of Emergency Management's (FDEM's) Enhanced State Mitigation Plan. This includes changing the format of the Plan as well as the revisions made to the hazards profiled to match what is in FDEM's Enhanced State Mitigation Plan.
- Revisions made to the **Mitigation Strategy Section** of the (Main Plan) document
 - o Revised goals and objectives based on a series of LMS Working Group meetings
 - o Added a capability assessment to assess each jurisdiction's ability to perform mitigation activities
 - o Identified local implementation to specify how existing community plans/policies have informed the development of this plan as well as how information from this new plan can be integrated with future community plans/policies.
- Revisions were made to the **Risk Assessment Section and Appendix B - Risk Assessment Tables**
 - o Updated the data, maps and tables based on the most updated information available.
 - o Added technological hazards in coordination with emergency management staff and the University of South Florida
 - o Integrated social vulnerability information provided by the University of South Florida for certain hazard profiles
 - o Included sea level rise within flood hazard profile (uses TBRPC's sea level rise inundation layers)
- Added appendices for the following:
 - o **Appendix A** - Planning process files (meeting minutes, sign-in, outreach documentation)
 - o **Appendix B** - Risk assessment tables to identify exposure of (public) critical infrastructure facilities to each natural hazard
 - o **Appendix C** - Additional hazard planning documents with links to individual studies
- Updated potential mitigation actions (aka projects to be funded) for all communities. Several communities added new projects to the Mitigation Initiatives list in 2020. – **Refer Appendix D - Mitigation Projects / Tables D-1, 3, 5, and 7 Mitigation Projects.**
- In addition, the Mitigation Archived Projects List was updated to reflect the archived mitigation projects. Completed projects were moved from the Mitigation Active List to the Mitigation Archived List – **Refer Appendix D Mitigation Projects / Tables D-2, 4, 6, and 8 Archived Mitigation Projects.** This is also done every year as a part of the LMS Plan's Annual Update.
- The Working Group Roster was updated to reflect the new members that joined, and staff changes that occurred within the municipalities. – **Refer Appendix A – Planning Process Documentation / LMS 2020 Working Group Roster.** This is also done every year as a part of the LMS Plan's Annual Update.
- The Plan was revised to indicate the outreach efforts that were conducted as a part of the LMS 2020 5-Year Update – **Refer Appendix A - Planning Process Documentation** for the meeting minutes, workshop flyers and Newspaper Notices.

Month 99, 2020

Brief for Decision Makers

Multi-jurisdictional Local Mitigation Strategy Plan Overview

Hillsborough County
Multi-jurisdictional
Local Mitigation Strategy
2020 Plan Update



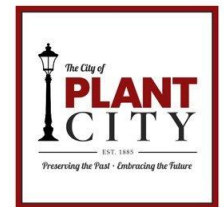
Hillsborough
County Florida



City of
Tampa
Florida



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Amazing City. Since 1925.



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About the Multi-jurisdictional Local Mitigation Strategy

Plan Timeline: Expires July 27, 2020 (The update process formally started in March of 2019)

Scope: All-hazards strategy (5-year update) for Unincorporated County and Cities of Tampa, Temple Terrace, and Plant City

Requirements:

- Gather an interdisciplinary group of community stakeholders to provide input into the plan and support the Community Rating System's 10-step process for floodplain management planning
- Address all natural hazards that impact communities
 - Profile each hazard (define, calculate impacts, frequency, etc.)
 - Develop strategies to reduce impacts from hazards
 - Identify projects that could be implemented to reduce hazard impacts
- Provide at least two opportunities for public to provide input into the strategy
 - Beginning of the update as the strategy is being drafted
 - During the final draft stage, but at least 2 weeks before it goes to governing body for approval
- Receive approval from Florida Division of Emergency Management and/or Federal Emergency Management Agency
- Adopt the Strategy locally by each jurisdiction

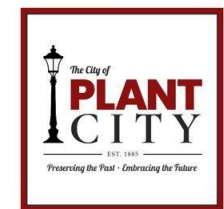
Hillsborough County Multi-jurisdictional Local Mitigation Strategy 2020 Plan Update



Hillsborough County Florida



City of Tampa Florida



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Requirements

Every 5 Years

The Code of Federal Regulations, 44 CFR §201.6 - Local Mitigation Plans (eCFR.gov, 2014) requires that the Local Mitigation Strategy be reviewed and revised every five years.

Under Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act) enacted under the Disaster Mitigation Act of 2000 (DMA2K), Hillsborough County [and the municipalities] is required to have a Federal Emergency Management Agency (FEMA)-approved hazard mitigation plan in order to be eligible for federal hazard mitigation funding.

Funding Examples:

- Hazard Mitigation Grant Program (HMGP)
- Pre-Disaster Mitigation (PDM) Program
- Flood Mitigation Assistance (FMA) Program

Hillsborough County Multi-jurisdictional Local Mitigation Strategy 2020 Plan Update



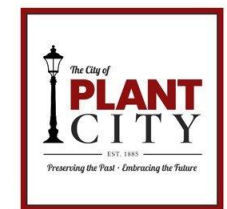
Hillsborough
County Florida



City of
Tampa
Florida



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Requirements

Florida Administrative Code 27P-22.004 requires that the plan be reviewed and updates be submitted to the state by the last business day in January of every year in order to be eligible for HMGP.

Other applicable standards include the Emergency Management Accreditation Program (EMAP) Standards. Hillsborough County is EMAP Accredited and the Hillsborough County LMS is compliant with the EMAP Standards. The applicable Standards include:

- 4.1: Hazard Identification, Risk Assessment and Consequence Analysis
- 4.2: Hazard Mitigation

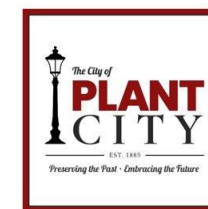
Hillsborough County Multi-jurisdictional Local Mitigation Strategy 2020 Plan Update



**Hillsborough
County** Florida



City of
Tampa
Florida



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Purpose of the Strategy

Hillsborough County @HillsboroughFL · Aug 27, 2019

During **hurricane** season, it can take only a few days for tropical weather to form and sweep into **Hillsborough County**.

Consider trees - their types, positioning, and maintenance - as part of your annual storm preparations. 🌳



Trees in Tropical Winds - Foes or Friends?
It depends on the storm, and the type of tree, its health, and its location
@hillsboroughcounty.org

Reduce risk to people, property, and the critical infrastructure

Increase public awareness and education about the plan and planning process



NEWS

POSTED May 3, 2019 | 2:18 PM

Reducing Risks is a Community Activity

Help Update Hillsborough County's All-Hazards and Floodplain Management Plan

Hillsborough County residents and business owners, including those in Tampa, Temple Terrace, and Plant City, are invited to participate in developing the community's risk mitigation strategy by providing feedback on the 5-year update to Hillsborough County's Local Mitigation Strategy and

Jim Schwab @jc_schwab

Three weeks ago, we toured the Tampa area to see Hillsborough County hazard mitigation planning projects, which I write about in this new blog post: jimschwab.com/Hablarbooks/20...



Maintain grant eligibility for participating jurisdictions.

City of Tampa @CityofTampa · Oct 7, 2019

Great news homeowners! Thanks to recent flood improvements, we've improved our Community Rating System (CRS) Score to a Class 5. This means Tampa residents will now receive a 25% discount on flood insurance policies purchased/renewed after Oct 1st. Info: bit.ly/2omf15t



TAMPA SECURES A 25%

Update the plan in accordance with Community Rating System (CRS) requirements.

Maintain compliance with state and federal legislative requirements for local hazard mitigation plans.

Content Details

44 CFR 201.6 - Local Mitigation Plans.

Summary Document in Context Related Documents

Category Regulatory Information

Collection Code of Federal Regulations (annual edition)

SuDoc Class Number AE 2.106/3:44/

Contained Within Title 44 - Emergency Management and Assistance
Chapter I - FEDERAL EMERGENCY MANAGEMENT AGENCY, DEPARTMENT OF HOMELAND SECURITY
Subchapter D - DISASTER ASSISTANCE
Part 201 - MITIGATION PLANNING
Section 201.6 - Local Mitigation Plans.

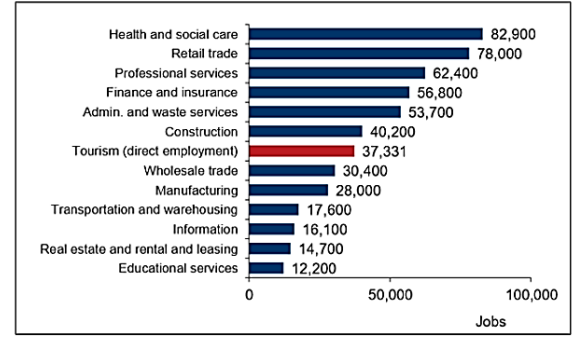
Date October 1, 2013

Citation Text 67 FR 8848, Feb. 26, 2002, as amended at 67 FR 61515, Oct. 1, 2002; 68 FR 61370, Oct. 28, 2003; 69 FR 55096, Sept. 13, 2004; 72 FR 61748, Oct. 31, 2007; 74 FR 47482, Sept. 16, 2009

Federal Register References 67 FR 61515, 67 FR 8848, 68 FR 61370, 69 FR 55096, 72 FR 61748, 74 FR 47482

United States Code Reference 42 U.S.C. 5170(c)

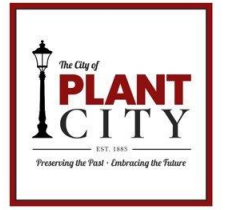
Figure 4.24 Employment in Hillsborough County, 2018



Source: U.S. Bureau of Labor Statistics (BLS), 2018.

Complete an update of information in the plan to demonstrate progress and reflect current conditions.

Hillsborough County Multi-jurisdictional Local Mitigation Strategy 2020 Plan Update



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Communities Can Use the Local Mitigation Strategy as their Floodplain Management Plan

Daily Activities

5-Year Strategy
Minor update/assessment
at least annually

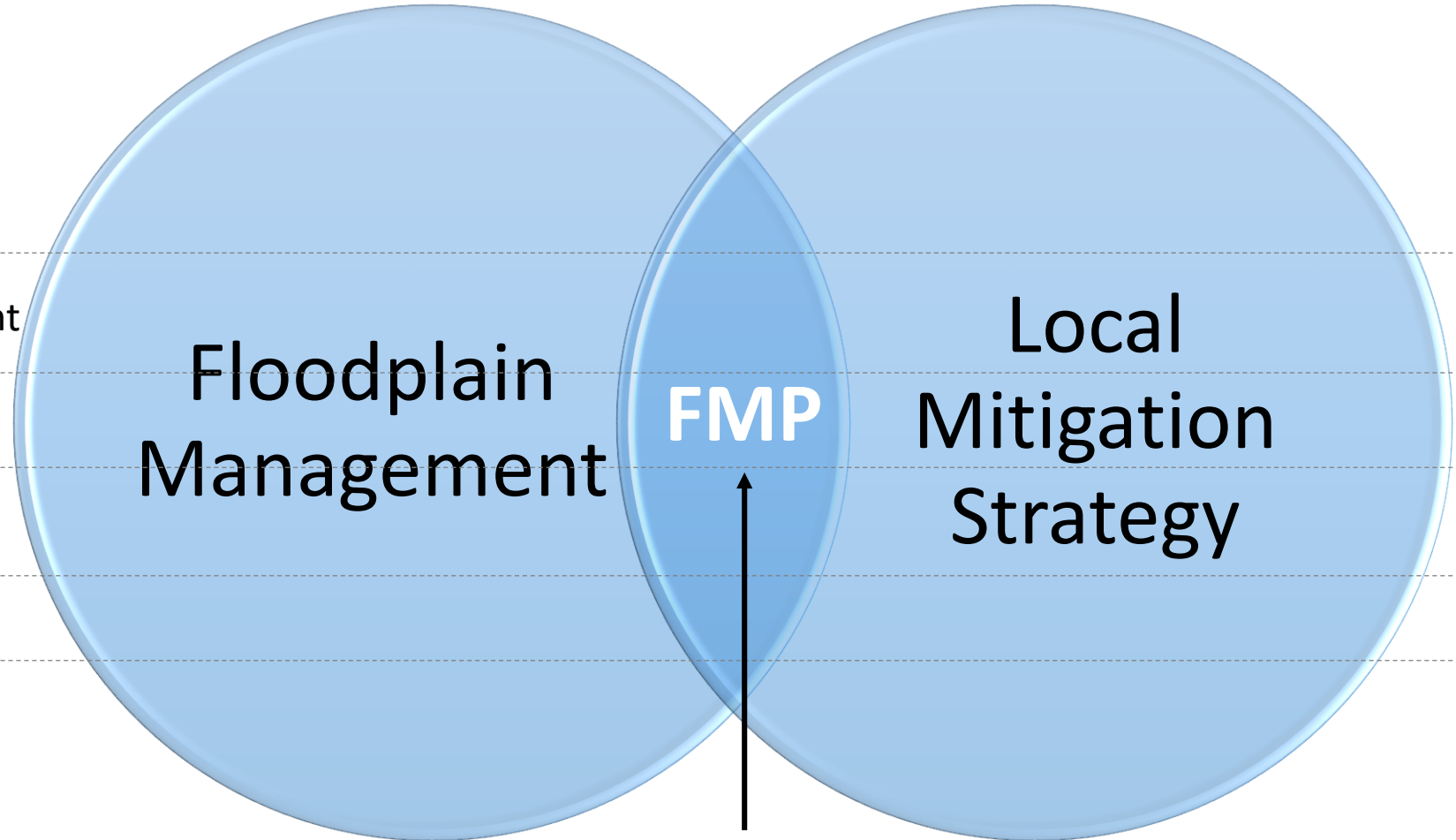
Planning

Hazard Identification and Risk Assessment

Strategy

Maintenance

Adoption



Needs to Meet Requirements
of the Community Rating
System's (CRS) 510 Credit

Importance of CRS Program: **More than \$ 12 Million in Annual Savings** to Flood Insurance Policies for Residents Countywide

Annual Dollars Saved per Community Due to Participation in the CRS Program

Community	CRS Class	SFHA Policy Discount	Standard X-Zone Policy Discount	Preferred Risk Policy Discount	Total Discount
Plant City	8	\$28,474	\$4,607	\$0	\$33,081
Tampa	5	\$6,144,732	\$59,223	\$0	\$6,203,955
Temple Terrace	6	\$15,049	\$1,844	\$0	\$16,893
Unincorporated	5	\$5,746,796	\$74,466	\$0	\$5,821,262
Countywide	N/A	\$11,935,051	\$140,140	\$0	\$12,075,191

NFIP Policy Counts

Community	CRS Class	SFHA Policy Count	Standard X-Zone Policy Count	Preferred Risk Policy Count	Total NFIP Policies
Plant City	8	240	78	176	494
Tampa	5	12,308	198	8,286	20,792
Temple Terrace	6	115	8	366	489
Unincorporated	5	16,195	470	16,709	33,374
Countywide	N/A	28,858	754	25,537	55,149

Annual Flood Insurance Premium Discounts Due to Participation in the CRS Program

CRS Class	Premium Reduction for SFHA policies	Premium Reduction for Non-SFHA Properties
1	45%	10%
2	40%	10%
3	35%	10%
4	30%	10%
5	25%	10%
6	20%	10%
7	15%	5%
8	10%	5%
9	5%	5%
10	0	0

SFHA = Special Flood Hazard Areas (A and V zones); Mandatory flood insurance purchase requirement

Non-SFHA = Zones A99, AR, A1-A30

Preferred Risk Policies are not eligible for discounts

Planning Process

Hillsborough County
Multi-jurisdictional
Local Mitigation Strategy
2020 Plan Update



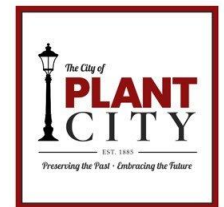
Hillsborough
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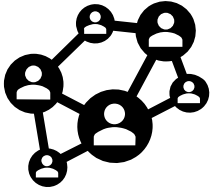
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Interact with existing community networks

Examples include:

Community Emergency Response Teams, American Red Cross, Salvation Army, Neighborhood Associations, Academia

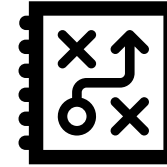


Educate and receive input from elected officials and professional staff

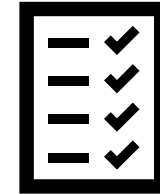
Assess other studies to inform the process

Examples include:

Community Vulnerability Study (USF)
Transportation Assessment (Plan Com)
Cost of Doing Nothing (TBRPC)



Use surveys, meetings, and engagement tools for community input into plan



LMS Planning Process

Interact with Private Sector and Regional Government Entities

Examples include:

TECO, MacDill AFB, Hospitals, Insurance, FDOT, FDEM, FEMA, SBA, Engineering and Design Firms



Assess existing policies to inform strategy and, in the future, be informed by the updated strategy

Examples include:
Comprehensive Emergency Management Plan
Comprehensive Plan
Floodplain Management Plan



LMS Working Group (LMS WG)

Membership

- Approximately 130 members on email distribution list (citizens, local governments, hospitals, businesses, Seminole Tribe, TECO, MacDill, State agencies, neighboring counties, etc.)
- Typical meeting size is 10-20 participants for in-person meetings
- Formal roster sent to FDEM every January as part of annual requirements per FAC statutes

Meeting Frequency

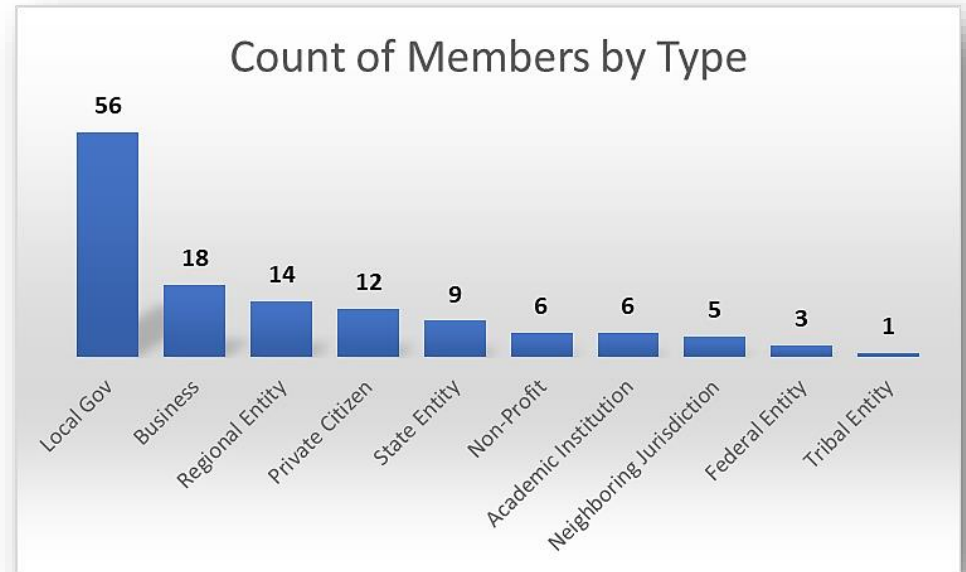
- During update process: every other month or as needed
- During non-update years: 3-4 times a year or as needed

Subcommittees

- Developed as needed to support a specific function

Meeting Advertisements

- Local government websites
- Email distribution to members



EVENT Public Meetings

DATE September 24, 2020 9:00 AM - 11:00 AM [SHARE](#) [f](#) [t](#) [in](#)

LMS Steering Committee/Emergency Actions Group

This first portion of the meeting is for the Local Mitigation Strategy Steering Committee and is open to the public.

The remainder will be dedicated to the Emergency Actions Group and is for operational entities only.

Contact

For questions or more information email [Micheal Ryan](#) or call (813) 272-6628.

Event Details

LOCATION	PSOC 9450 E. Columbus Dr. Tampa FL, 33619
DATE	September 24, 2020 9:00 AM

Hillsborough County PSOC EOC
9450 E Columbus Dr, Tampa, FL
33619
5.0 ★★★★★ 1 review
[View larger map](#)

Hillsborough County PSOC EOC
25 min drive home

Public Engagement

Open House Style with Public Information Booths

Seek out potential participants and information that can inform the plan. Engagement needs to be at the beginning as well as final stages of the update.

4 Meetings

- May 13 – South Tampa
- May 14 – Northwest Hillsborough
- May 15 – South Hillsborough
- May 16 – Plant City



Hillsborough County @HillsboroughFL · May 15
Work together to make the community a more-prepared place!

Learn how you can help update Hillsborough County's All-Hazards and Floodplain Management Plan, here:



Hazard Identification and Risk Assessment

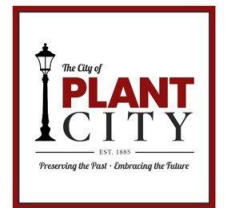
Hillsborough County
Multi-jurisdictional
Local Mitigation Strategy
2020 Plan Update



Hillsborough
County Florida



City of
Tampa
Florida



COMMUNITY STAKEHOLDERS

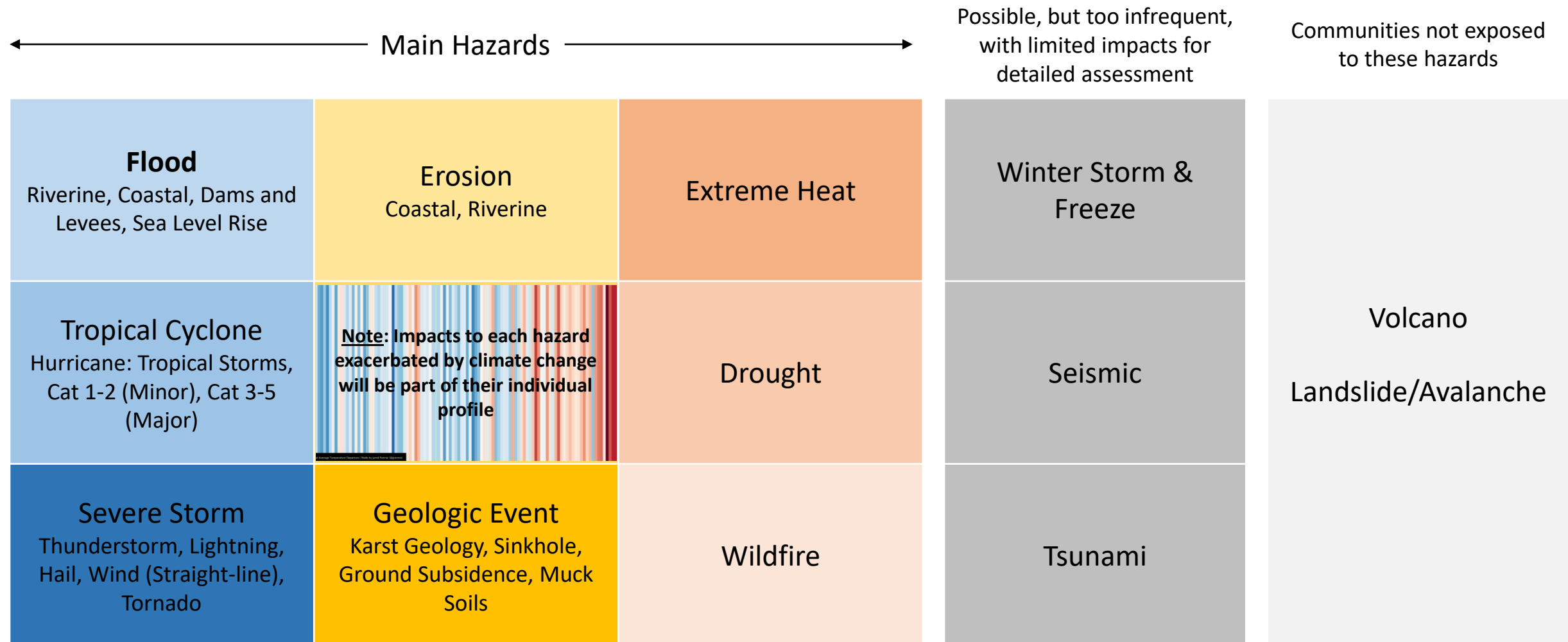


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Natural Hazards

Note: Each hazard will have amplified impacts from climate change included. The climate change impacts will be generalized as future impacts have uncertainty associated with them.



Technological Hazards

Note: Information regarding technological hazards are not required for the LMS (per FEMA and FDEM) but where information is available, they are being included to meet EMAP requirements and provide a wholistic look at community vulnerabilities.

Transportation Incident Aviation, Highway and Motor Carrier, Maritime, Mass Transit, Pipeline, Freight Rail, Postal and Shipping	Utility/Power Incident Utility Outage, Power Outage	HazMat Incident Fixed Facilities,	Space Weather	Radiological Incidents
Terrorism Cyber	Agricultural Disruption	Biological Incident Disease Outbreak, Food and Waterborne Disease Outbreak, Red Tide	Mass Migration	Civil Disturbance

Summary of Hazard Vulnerabilities

The LMS Working Group worked with consultant staff to review each hazard as it relates to:

- Probability of Occurrence
- Impact to the Community
- Spatial Extent
- Warning Time
- Duration

Each factor had a weighted value and was added together for an overall Priority Risk Index score that was then categorized as High, Moderate, or Low.

Table 4.4: Hazards Vulnerability by Jurisdiction

Hazard	Hillsborough County	Plant City	Tampa	Temple Terrace
Natural Hazards				
Flood	High	High	High	High
Tropical Cyclone – Minor (TD to Cat 2)	High	High	High	High
Tropical Cyclone – Major (Cat 3 to 5)	High	High	High	High
Severe Storm	High	High	High	High
Tornado	Moderate	Moderate	Moderate	Moderate
Wildfire	Moderate	High	Moderate	Moderate
Erosion	Moderate	Low	High	Low
Extreme Heat	Moderate	Moderate	Moderate	Moderate
Drought	Moderate	Moderate	Moderate	Moderate
Suspect Soil	Moderate	Moderate	Moderate	Moderate
Winter Storm and Freeze	Low	Low	Low	Low
Seismic Events	Low	Low	Low	Low
Tsunami	Low	Low	Low	Low
Technological Hazards				
Transportation Incident	High	High	High	High
Infrastructure Disruption	Moderate	Moderate	Moderate	Moderate
HazMat Incident	High	High	High	High
Space Weather	High	High	High	High
Terrorism	High	High	High	High
Cyberterrorism	Moderate	Moderate	Moderate	Moderate
Agricultural Disruption	High	High	High	High
Disease Outbreak and Biologic Incident	Moderate	Moderate	Moderate	Moderate
Food and Waterborne Disease Outbreak	Moderate	Moderate	Moderate	Moderate
Mass Migration	Low	Low	Low	Low
Civil Disturbance	High	High	High	High
Dam/Levee Failure	Moderate	Moderate	Moderate	Moderate

Natural Hazards



Flood



Hail



HighWind



Hurricane



Hurricane_100yr_AtLeastMod



Hurricane_100yr_AtLeastSev



Hurricane_500yr_AtLeastMod



Hurricane_500yr_AtLeastSev



Hurricane_TotalAnnualizedLoss



LandUse



SeaLevelRise_1ft



SeaLevelRise_4ft



SeaLevelRise_7ft



SeaLevelRise_10ft



Seismic_AnnualLoss



Seismic_Events



SocialVulnerability_Comp



SocialVulnerability_Housing



SocialVulnerability_Minority



SocialVulnerability_Socioecon



SocialVulnerability_Total



StormSurge_Cat1



StormSurge_Cat2



StormSurge_Cat3



StormSurge_Cat4



StormSurge_Cat5



Subsidence



Tornado



Wildfire_BurnProbability



Wildfire_IgDensity



Wildfire_WUIRisk

Hazard Profiles

Every hazard identified within the strategy has a profile that covers the 10 items below. At the end of each hazard profile, a summary (right) is created to highlight the key aspects.

Natural Hazard Profile
Description
Geographic Area Impacted
Historical Occurrences
Probability of Future Occurrences
Impact Analysis (EMAP)
Vulnerability Analysis
Climate Intensifiers
Mitigation Options
Summary Matrix
County GIS Assessment

TROPICAL CYCLONE						Overall Vulnerability
Overview						
<p>A tropical cyclone is a rotating, organized system of clouds and thunderstorms that originates over tropical or subtropical waters and has a closed low-level circulation. A tropical storm is one such system that has a maximum sustained surface wind speed of 34-73mph, while a hurricane has sustained winds of 74 mph or greater. Florida is at risk of experiencing these tropical systems due to subtropical climate and exposed position within large bodies of water. Residents in all sections of the county are potentially vulnerable to the effects a tropical cyclone but due to high levels of development and concentrated numbers of civilians, the coastlines are vulnerable to greater impacts.</p>						HIGH
MINOR (TROPICAL DEPRESSION TO CATEGORY 2)						
Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score	
Likely	Critical	Large	> 24 hrs	< 1 week	3.0	
MAJOR (CATEGORY 3 TO CATEGORY 5)						
Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score	
Possible	Catastrophic	Large	> 24 hrs	< 1 week	3.0	

Strategy Objectives

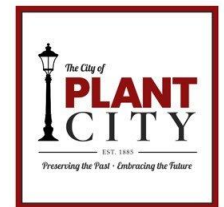
Hillsborough County Multi-jurisdictional Local Mitigation Strategy 2020 Plan Update



Hillsborough
County Florida



City of
Tampa
Florida



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Goal and Objectives

Overall Goal of the LMS: To establish and maintain an ongoing process that continually assesses potential disasters, develops corresponding mitigation techniques, and incorporates preparedness and response into the consciousness of the entire community.

Focus Area Goals

1. **Improved Human Environment (*People and Businesses*)** – Provide guidance on activities that protect and improve the quality of life and standard of living for residents and businesses. Specific actions are intended to focus on education, safety, health, and finances that reduce social vulnerability and improve business retention.
2. **Improved Built Environment (*Housing, Commercial Facilities, and Infrastructure*)** – Provide guidance on activities that improve levels of service through risk assessments, assess benefits of development/retrofits in low-risk areas, and consider higher standards.
3. **Improved Natural Environment (*Land, Vegetation, Animals*)** – Provide guidance on activities that promote natural and beneficial functions of floodplains, consider natural protection measures, and support healthy air and water quality for people and animals.
4. **Resiliently Designed Environments (*Strengthened Human, Built, and Natural Environments*)** – Provide guidance on activities that integrate lessons learned and best practices, while considering current and future hazard vulnerabilities, to provide a more disaster-resilient community.

Objectives and Strategic Directives

The LMS WG developed **18 focused directives** were developed across the **4 objective areas**. For each directive, a description of the activity was created as well as a type of metric to begin measuring progress. The LMS WG will propose initiatives and guidance regarding supporting activities over the next 5-year cycle.

Excerpt from Table 3.1: Goals and Directives

Directive Number	Goal Number	Goal Name	Strategic Directive (for community organizations, such as jurisdictions, NGOs, and non-profits)	Strategic Measures
4.3	4	Resiliently Designed Environments	Identify benefits of higher-risk thresholds to community stakeholders when assessing hazard vulnerability (i.e. a 500-yr storm as a baseline vs 100-yr).	Code language
4.4	4	Resiliently Designed Environments	Promote countywide consistency for higher standards (similar risk thresholds and planning horizons).	Code language

Mitigation Projects

Each community has an “active” list of potential projects that could be funded. Additionally, each community has an “archived” list of projects submitted in previous strategies, but need further evaluation as to if they should still be considered. Each project goes through an approval process directed by the LMS WG. Projects can be added or removed throughout the year during LMS meetings.

Table D.5: Tampa Active Mitigation Projects

Excerpt of Appendix D: Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
1	Lamb Ditch Improvements: Repair and reinforce the side slopes of the ditch to reduce erosion on to private property	Flood	High	2.4	COT Stormwater	FEMA / HMGP	\$1,500,000	2022	New project
2	3604 E. 7th Avenue: Extension of stormwater system or purchase property in neighborhood and provide retention for flood relief.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$1,000,000	2025	Deferred. Still trying to secure appropriate funding.
3	Eastridge Pumping Station: 800 W. 109th St. - Rehabilitation of existing pumping station to provide redundancy and resilience Cost	All Hazards	High	2.4	COT Stormwater	FEMA / HMGP	\$600,000	2021	Currently, the pumping station is being constructed.
4	Poinsettia Pumping Station: 2806 E. Poinsettia Ave. - Rehabilitation of existing pumping station to provide redundancy and resilience Cost	Flood	Low	2.4	COT Stormwater	FEMA / HMGP	\$500,000	2021	Currently, the pumping station is being constructed.
5	Nebraska: Emma North of MLK Boulevard (SE Seminole Heights Flood Relief) Extension of City and FDOT stormwater system to address flooding in area.	Flooding, Hurricanes, and Tropical Storms	High	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$170,000	2025	Deferred. Still trying to secure appropriate funding.
6	2905 - 2907 Comanche Avenue: Construction of ditch and culvert system to retention pond for flood relief in area.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$120,000	2025	Deferred. Still trying to secure appropriate funding.
7	305 E Althea Avenue: Extension of stormwater system to address flooding at low area in road.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$100,000	2025	Deferred. Still trying to secure appropriate funding.
8	6115 N 23RD Street: Construct system along 23rd St and connect to system on Hanna Ave	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$100,000	2025	Deferred. Still trying to secure appropriate funding.
9	9314 Forest Hills Drive: Design and construction of stormwater system to eliminate area flooding of garages and streets.	Flooding, Hurricanes, and Tropical Storms	Low	2.4	Tampa Stormwater Division	ST, SRF, FMA, HMGP, NPS, WP&FPP	\$135,000	2025	Deferred. Still trying to secure appropriate funding.

Mitigation Projects

Each community has an “active” list of potential projects that could be funded. Additionally, each community has an “archived” list of projects submitted in previous strategies, but need further evaluation as to if they should still be considered. Each project goes through an approval process directed by the LMS WG. Projects can be added or removed throughout the year during LMS meetings.

Table D.1: Hillsborough County Active Mitigation Projects

Excerpt of Appendix D: Mitigation Projects

Proj/Act#	Description of Project	Hazard(s) Addressed	Relative Priority	Goal/Directive	Lead Agency/Department	Potential Funding Source	Estimated Costs	Implementation Schedule	Implementation Status (2020)
1	56 th Street Flood Control and Water Quality Improvements; Installing a 2 nd outfall to the Hillsborough River, a smart box and detention ponds.	Flood	High	Goal 2.4	Hillsborough County Public Works	FEMA HMGP; County budget; State funds	\$2,550,000	2024	New. A contractor was selected to begin the PD&E.
2	Town 'N' Country/Hillsborough Ave Regional Drainage Improvement Project: Design of regional stormwater improvements to serve an area in the Lower Sweetwater Creek Watershed.	Flood	High	Goal 4.1	Hillsborough County Stormwater Services Section	County CIP; FEMA grants; State funds	\$45,000,000	2024	Currently, this project is in Phase 1 of the design and will begin the construction phases 2 & 3 once the design is approved and permitted.
3	Langston Park Regional Drainage Improvement:	Flood	High	Goal 4.1	Hillsborough County Stormwater Services Section	County CIP; FEMA grants; State funds	\$1.5 million	2022	Currently, PD&E is complete, and it will move to the design phase this year.

Plan Maintenance

- LMS Working Group continues to meet quarterly to review and revise plan elements, as necessary
- Ad-hoc meetings can be called, as needed, to support grants as well as both pre- and post-disaster situations (still need to be publicly noticed as all meetings are required to be advertised unless they are simply staff activities to manage the process)
- Annual updates to FDEM by end of January to meet Florida Administrative Code requirements
- Projects can be added to the list of potential initiatives at any time by going through procedures established by the LMS WG
- LMS and CRS activities need to be continually coordinated, particularly those actions that relate to Floodplain Management Planning requirements
- The LMS document will need to be updated again prior to summer of 2025

Hillsborough County Multi-jurisdictional Local Mitigation Strategy 2020 Plan Update



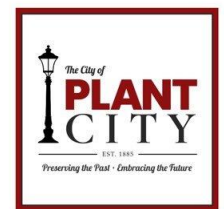
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Approval and Adoption Process

- County submits a draft strategy to the Florida Division of Emergency Management (FDEM). FDEM has an agreement with FEMA to review plans on FEMA's behalf.
- County receives comments from FDEM, addresses comments, and resubmits.
- Process continues until approved by FDEM.
- FDEM issues an Approved Pending Adoption (APA) letter which indicates that the plan just needs to go through local adoption process.
- **At least 1 of the 4 jurisdictions needs to adopt the plan prior to the expiration date of July 27, 2020 in order to “reset the clock” for the next 5 years.**
- All jurisdictions must adopt the plan through their own process.

Hillsborough County Multi-jurisdictional Local Mitigation Strategy 2020 Plan Update



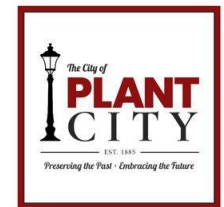
**Hillsborough
County** Florida



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APPENDIX G – PLAN MAINTENANCE

This appendix includes the Annual LMS Update Forms completed each year for compliance with Florida Administrative Code 27P-22.004 as well as any annual reporting for CRS activities.



Agenda Item Cover Sheet

Agenda Item N^o: A-11

Meeting Date 1/23/2020

Consent Section

Regular Section

Public Hearing

Subject: Approve, sign, and transmit correspondence to the Florida Division of Emergency Management indicating that Hillsborough County has complied with the annual Local Mitigation Strategy reporting requirements of Rule 27P-22.004, Florida Administrative Code.			
Department Name: Engineering and Operations			
Contact Person: Joshua Bellotti		Contact Phone: 276-2530	
Sign-Off Approvals:			
John Lyons	1/9/2020	Joshua Bellotti	1/8/2020
Assistant County Administrator	Date	Department Director	Date
Kevin Brickey	1/9/2020	Vivian Arenas-Battles	1/8/2020
Management and Budget – Approved as to Financial Impact Accuracy	Date	County Attorney – Approved as to Legal Sufficiency	Date
Lucia Garsys	1/10/2020		
Deputy County Administrator	Date		

Staff's Recommended Board Motion:
 Approve, sign, and transmit correspondence to the Florida Division of Emergency Management indicating that Hillsborough County has complied with the annual Local Mitigation Strategy reporting requirements of Rule 27P-22.004, Florida Administrative Code (FAC). There is no financial impact associated with this agenda item.

Financial Impact Statement:
 There is no financial impact associated with this agenda item.

Background:
 Hillsborough County's Local Mitigation Strategy (LMS) is a plan which presents a unified strategy to build a disaster-resilient community. Rule 27P-22.004, FAC requires Hillsborough County to maintain a current LMS and a formal LMS Working Group. In this regard, Rule 27P-22.004, FAC requires the County to conduct and/or apprise the Florida Division of Emergency Management of the following activities on an annual basis: (a) a list of the officers and members of the LMS Working Group; (b) documentation that a written invitation has been issued to specified parties and entities within the preceding year to participate in the LMS Working Group; and (c) annual LMS updates which address, at a minimum, changes to the hazard assessment, project priority list, critical facilities list, repetitive-loss list, and revisions to any maps. The proposed correspondence and attachments fulfill the annual reporting requirements imposed upon Hillsborough County by Rule 27P-22.004, FAC.

List Attachments: 1. Transmittal Letter for Chairman's Signature; 2. Annual Compliance Form 27P-22 with enclosures pursuant to F.A.C.

ATTACHMENT 1 LETTER FROM THE CHAIRMAN

Lesley "Les" Miller, Jr., District 3
Chairman
Kimberly Overman, District 7
Vice Chair
Stacy R. White, District 4
Chaplain
Sandra L. Murman, District 1
Ken Hagan, District 2
Mariella Smith, District 5
Pat Kemp, District 6



Michael S. Merrill
County Administrator
Christine M. Beck
County Attorney
Peggy Caskey
County Internal Auditor

January 23, 2020

Mr. Miles Anderson, Mitigation Bureau Chief
Florida Division of Emergency of Management
Mitigation Planning Section
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

RE: HILLSBOROUGH COUNTY LOCAL MITIGATION STRATEGY ANNUAL UPDATE
AS REQUIRED BY 27P-22.004 (Formerly 9G-22.004), FLORIDA ADMINISTRATIVE CODE

Dear Mr. Anderson:

Pursuant to Rule 27P-22.004, Florida Administrative Code, the Board of County Commissioners approved the transmittal of the Local Mitigation Strategy (LMS) membership list to the Florida Division of Emergency Management on January 23, 2020. The Chair and Vice-Chair positions on the LMS Working Group (WG) are identified on the list and were voted into the position by popular vote of the LMS WG members.

The LMS WG has been comprised of approximately the same entities as during the past five years, which includes public- and private-service providers. Additionally, the countywide Emergency Operations Stakeholder Group (EOSG) of the Office of Emergency Management serves as the Steering and Oversight Committee to the LMS WG to assist with any decision processes, if required, and is comprised of representation from the County, cities of Plant City, Tampa, and Temple Terrace, state agencies, private-service providers, and community non-profit organizations. Hillsborough County does include communications with the Seminole Tribe of Florida requesting participation.

The LMS process includes conducting a minimum of two meetings a year, which provides a forum in which areas of vulnerability are reviewed. For the calendar year 2019, the LMS WG met six times and held four open houses; whereby meeting notes were recorded, and/or notes logged. The EOSG met four times during this year and approved updates to the project list or recommendations forwarded by the LMS WG. The election of the Chair and the Vice-Chair during 2019 was conducted. During this past period, the enclosed list of members was reviewed and individuals of the LMS WG responded in maintaining their respective standing to remain in the group. An announcement for participation and an appreciation letter for each LMS WG member was sent, which sustained the current Group's makeup. All members were notified of meetings via email and all meetings were noticed on the Hillsborough County calendar.

In accordance with state requirements, information is required to be submitted and contained herein, on an annual basis if modifications have been performed or if new data exist. In summary, compliance with the Florida Administrative Code is summarized in the enclosures contained within this transmittal and forwarded to the Florida Division of Emergency Management (FDEM) to accompany Hillsborough County's submittal. The FDEM (and FEMA) approved the County's last five-year update that was also adopted by the Board of County Commissioners.

Hillsborough County greatly appreciates working with the State and participating in disaster-mitigation activities. This process not only provides a forum for citizens to be involved in reviewing potential risks to our community, but it also works to build a community that is more resilient to disasters. If further information is needed regarding this program, please contact Mr. Eugene Henry, Hazard Mitigation Manager (and Local Mitigation Strategy Coordinator) of the County's Hazard Mitigation Program, Engineering and Operations Department.

Sincerely,

Lesley "Les" Miller, Jr., Chairman
Board of County Commissioners

Enclosures: Annual Compliance Form 27P-22 with Enclosures pursuant to F.A.C.

cc: Board of County Commissioners
Michael S. Merrill, County Administrator
Lucia E. Garsys, AICP, Deputy County Administrator
Christine M. Beck, County Attorney
John W. Lyons, PE, PSM, Assistant County Administrator - Public Works
Joshua Bellotti, PE, Director, Engineering and Operations
Mike Ryan, OEM Section Chief, Office of Emergency Management
Elizabeth Dunn, Chair, University of South Florida, LMS WG
Steven Castonguay, Vice Chair, HC Health Department, LMS WG

ATTACHMENT 2

FLORIDA ADMINISTRATIVE CODE 27P-22.004

ANNUAL COMPLIANCE FORM WITH ENCLOSURES

Florida Administrative Code 27P-22.004
Annual Compliance Form

County	Hillsborough
Chair	Reference: FAC 27P-22. 004 (4)(a)
	Name: Elizabeth Dunn, MPH, CPH
	Jurisdiction & Title: : Instructor, College of Public Health, University of South Florida;
	Address: University of South Florida, 13201 Bruce B. Downs Blvd, MDC 56, Tampa, Florida 33612
	Phone (o):
	Phone (c): 361-510-7935
	Email:
Vice Chair (if applicable)	
	Name: Steven Castonguay
	Jurisdiction & Title: FDOH – Hillsborough, Public Health Preparedness Planner
	Address: 1105 E. Kennedy Blvd, Tampa, FL 33602
	Phone (o): 813-559-4006
	Phone (c): 813-299-0714
	Email: steven.castonguay@flhealth.gov
EM Coordinator (if applicable)	
	Name: Eugene Henry
	Jurisdiction & Title: Hillsborough County, Hazard Mitigation Manager/LMS Coordinator
	Address: Post Office Box 1110, 22nd Floor, Tampa, Florida 33601
	Phone (o): 813-307-4541
	Phone (c): 813-785-4145
	Email: henrye@hcf.gov.net

Was your LMS submitted to the State for review within the last 6 months? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--

<p>If your LMS was submitted in the past 6 months, have there been any changes since the plan was submitted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p> <p>If Yes or N/A, please complete the following document. If No, your 27P-22.004 annual update is complete.</p>

Florida Administrative Code 27P-22.004
Annual Compliance Form

1. LMS Working Group

Submit the LMS-WG List including contact information.	<input checked="" type="checkbox"/> Attached
Reference: FAC 27P-22. 004 (4)(a)	
Comments: Enclosure 1	

2. LMS Working Group Participation Invites

Provide documentation to show that within the preceding year the county has issued a written invitation to each municipality to participate in the LMS-WG.	<input checked="" type="checkbox"/> Attached
Reference: FAC 27P-22. 004 (4)(3)	
Comments: Enclosure 2	

3. Hazard Analysis Change

Are there any new or removed hazards?	<input checked="" type="checkbox"/> Yes
Reference: FAC 27P-22. 004 (4)(e)(1)	<input type="checkbox"/> No
Comments: Enclosure 3 Added Hazards analyses	If Yes, attach the LMS sections that have been updated.

4. Project Priority List

Include a list of projects in order of priority with associated funding sources and estimated costs. TBD for estimated costs is not sufficient.	<input checked="" type="checkbox"/> Attached
Reference: FAC 27P-22. 004(e)(2) & FAC 27P-22. 005(7)	
Comments: Enclosure 4	

Florida Administrative Code 27P-22.004
Annual Compliance Form

5. Critical Facilities List

Have there been any changes to the critical facilities list within the past year?	<input checked="" type="checkbox"/> Yes
Reference: FAC 27P-22. 004 (4)(e)(3)	<input type="checkbox"/> No
Comments: Enclosure 3 Critical Facilities	
	If Yes, attach the updated list.

6. Repetitive Loss Properties List

Have there been any additions or removals to the repetitive loss properties in any of your jurisdictions within the past year?	<input checked="" type="checkbox"/> Yes
Reference: FAC 27P-22. 004 (4)(e)(4)	<input type="checkbox"/> No
Comments: Enclosure 3 Repetive Loss	
	If yes, attach the updated list.

7. Revisions to Maps

Were there any changes to maps included in the LMS within the past year?	<input checked="" type="checkbox"/> Yes
Reference: FAC 27P-22. 004 (4)(e)(5)	<input type="checkbox"/> No
Comments: Enclosure 3 Changes to Hazards	
	If yes, attach the updated map(s).

Please email this updated information ***by the last working weekday of January 2020*** (Friday, January 31, 2020) to your LMS State Liaison, per the enclosed map. Or you may mail your documents to the following address:

Florida Division of Emergency Management
Attention: Mitigation Planning Unit
2555 Shumard Oak Boulevard
Tallahassee, FL 32399-2100

Please contact your liaison with any questions. Thank you in advance for your cooperation.

APPENDIX H – GOVERNANCE AND BYLAWS OF THE HILLSBOROUGH COUNTY LMSWG

This appendix includes the Governance and Bylaws of the Hillsborough County Local Mitigation Strategy Working Group (LMS WG).

APPENDIX H

GOVERNANCE AND BYLAWS OF THE HILLSBOROUGH COUNTY LOCAL MITIGATION STRATEGY WORKING GROUP

Preamble

The Hillsborough County Local Mitigation Strategy Working Group (LMS WG) pursuant to Hillsborough County and consistent with the Code of Federal Regulations, Title 44 CFR Part 201; and Administrative Code, 27P-22.004 LMS Working Groups of the Florida Administrative Code; and Florida Statutes Sections 252.44 and 252.46. In compliance with these regulations, the following sets forth the Bylaws, Policies and Procedures that shall serve to guide the proper functioning of the LMS WG. The intent is to provide guidance for the operation of the LMS WG to ensure the accomplishment of hazard mitigation planning tasks within a cooperative framework among key institutions on a continuing basis.

Purpose and Function

- Participation in the LMS WG is voluntary by all entities.
- Membership in the LMS WG is open to all jurisdictions, county government, private and civic organizations, private businesses, trade and commercial support groups, property owners' associations, Native American Tribes or authorized tribal organizations, State agencies, regional planning councils, independent special districts, and non-profit organizations.
- The LMS WG of the Local Mitigation Strategy (LMS is the sole authority to review and approve document content which includes):
 - Perform technical sufficiency and completeness
 - Consideration of community plans and documents that affect county-wide mitigation to disasters to reduce vulnerabilities to hazards that affect human, built, and natural environments, and disaster assistance projects prioritization for funding opportunities through the Stafford Act, Hazard Mitigation assistance , companion pre- and post-disaster assistance grants and programs, state mitigation program and local and regional programs.
 - Jurisdictions and members of the LMS WG Report to regarding current and future hazard mitigation strategies to guide the countywide community.
 - Recommending strategic mitigation initiatives to provide community-wide guidance in achieving natural mitigation objectives and in integrating individual jurisdictional disaster resiliency with the local mitigation strategy's initiatives.

General Group Membership

- The Hillsborough County LMS WG and the CRS/PPI subcommittee may include representatives from the organizations named on page 2 (but not limited to) concerned with the impacts of natural and man-made hazards on the health, safety and welfare of the community.
- Participation in the LMS WG is voluntary by all entities.
- There is no limit on the number of members who may serve on the LMS WG.

- Limitation to representation that the appointed member is unable to attend a LMS WG meeting, an alternate from that department or agency may serve as their representative at the meeting.
- If a member no longer wishes to serve on the LMS WG, they may notify the chairperson, Vice chair or staff and designate a replacement who holds a position within that department or organization that either is professionally more responsible for LMS-related activities or can fairly represent the organization's stakeholder concerns in the LMS process.
- A person cannot be an alternate for more than one LMS WG member.
- The LMS WG may include the following organizations:
 - Building department/code enforcement,
 - Engineering,
 - Land use planning/zoning,
 - Public works,
 - Emergency management/public safety,
 - Public information,
 - Environmental protection/public health,
 - Parks/recreation,
 - A representative from either city or county or council/commission member
 - Housing/community development.
 - Neighboring communities;
 - Stakeholder-type organizations
 - Regional and metropolitan planning agencies
 - American Red Cross
 - Local homebuilders/ construction association
 - Local environmental groups
 - Local Insurance and real estate professionals
 - Citizens

Participation and Voting

- Participation of the LMS WG member or alternate is required for at least 2 meetings held throughout the calendar year to enable voting privileges.
- Each Voting member of the LMS Committee may name via written notice to the chairman one (1) alternate who may vote only in the absence of that member on a one vote per member basis.
- Non-voting members shall sit with the same rights and privileges as other members, except that non-voting members shall not have the right to present motions or second same, or to vote upon any motions.

Officers and Elections

- The officers of the LMS WG will be the Chairperson and Vice Chairperson. The officers shall be voting members elected by the LMS WG and submitted to the BOCC with the annual report.
- The LMS WG Chairperson shall preside at all meetings. In the event of the Chairperson's absence or at his/her direction, the Vice Chairperson shall assume the powers of the Chairperson. In the event that neither the Chairperson nor Vice Chairperson can preside at the meeting, the committee members present shall elect one of its members to serve as acting Chairperson for the meeting.

- Officers shall be elected in November of each year, or in the event there is not a meeting in November, the next scheduled meeting. Nominations for officers shall be made at the meeting. Election shall be a majority vote of the LMS WG voting members present.
- Newly elected officers shall assume their duties at the first meeting of the next calendar year. They shall hold office for one year, or until their successors are elected, and they shall be eligible for re-election.
- In the event that either the Chairperson or Vice Chairperson office becomes vacant, a replacement shall be elected by the work group at the next scheduled LMS WG meeting and assume duties immediately and hold the position for the remainder of the calendar year.
- In the event that a meeting needs to happen quickly, a digital meeting and digital voting shall be scheduled and a call in number be provided.

Administration

- The Chairperson may call an emergency (non-regular) meeting of the LMS WG when a circumstance exists which requires immediate action by the LMS WG. When such a meeting is called, each LMS WG member shall be notified, stating the date, hour and place of the meeting and the purpose for which it is called, noticed on the county calendar and no other business shall be transacted at that meeting.
- If after reasonable diligence it becomes impossible to give notice of an emergency meeting to each LMS WG member, the business of the meeting may be carried out if a quorum is present and appropriate public notice has been provided.
- The LMS Coordinator designated by Hillsborough County and shall serve as primary staff of the LMS WG.
- The LMS Coordinator or designee shall transmit LMS WG recommendations to the County, City, or other entity as applicable.
- All official actions of the LMS WG shall be by motion and open vote.

Meetings and Agendas

- The LMS Coordinator is responsible for the meeting notes of all LMS WG meetings and all notices and agendas for the LMS WG meetings.
- The LMS WG shall meet not less than 3 (three) times per year. Regular LMS WG meetings shall be held at dates, times, and places as approved by the LMS WG and normally held quarterly. Regular meeting dates and times may be changed to accommodate holidays or for other valid reasons.
- Every attempt shall be made to send agenda packages to LMS WG members five (5) days prior to a regular LMS WG meeting.
- Any LMS WG member or alternate who is eligible to vote at the LMS WG meeting may place additional items on the LMS WG agenda, with the approval of the majority of the voting members or alternates present.

Conduct of Meeting

- All LMS WG meetings shall be conducted under the requirements of the Florida “Government in the Sunshine” law (Chapter 286, F.S.) and the Standards of Conduct in Section 112.313, F.S. including applicable notice requirements, and be open to the public and press.
- The public will have the right to speak, enter into discussion or actively participate in any orderly and open discussion with the permission of the chairperson.
- In the absence of rules covered in this document, Roberts Rules of Order shall be followed at all LMS WG meetings.
- A quorum for LMS WG meetings shall consist of a minimum of five voting members or alternates including at least one member representing a City-only department and one member representing a County-only department.
- The LMS WG must comply with Section 122.3143, F.S., “Voting Conflicts,” which requires that a member who has a conflict of interest on any particular matter to declare the conflict of interest before discussion and a vote is taken and shall be excused from voting on that issue.
- All official and formal positions of the LMS WG, regardless of whether adopted or rejected, shall be recorded in the meeting notes. Verbatim minutes are not required but notes shall include an accurate summary of discussions and actions taken.

Sub Committees

- One subcommittee group shall be the Community Rating System/Public Involvement Plan (CRS/PPI) group
- Any subcommittee group should have at least a chairperson and meet not less than 3 times a year.

APPENDIX I – MITIGATION INITIATIVES

Local Hazard Mitigation Plan Requirements

C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? [44 CFR §201.6(c)(3)(ii)] and [44 CFR §201.6(c)(3)(iv)]

This appendix includes the current mitigation measures and initiatives that are ongoing within the county based on the overall efforts as well as some hazard specific strategies.

The county has also clearly outlined potential strategies for the communities and individuals to consider.

Current Mitigation Strategies

There is a multitude of approaches to mitigate effects from flooding. The following illustrates mitigation initiatives that have been the most effective and underway within Hillsborough County.

- **Early Warning Systems:** The National Weather Service (NWS) and the Florida Division of Emergency Management (DEM) are responsible for executing warnings preceding and during a potential, or actual, flood event. Warning time for flood events may vary significantly. The least warning time would be with severe thunderstorms, which occur frequently in our area, but give little notice as to the extent of rainfall that can be produce in various parts of the County. An average warning time for coastal flooding would be about 12 to 18 hours.
 - Modernization of weather observation equipment has been linked to early severe-storm warning systems. Within Hillsborough County, more than 800 such connections have been made.
 - Access to warning systems have been made available to all residents and businesses who have a weather radio.
 - Recent advances in cell phone technology has made available lightning notification services to help provide advanced warning of lightning in the area.
 - Severe weather forecasting and detection is active at the Tampa International Airport to detect conditions favorable for micro-wind bursts or wind downburst. This also allows the airport to reduce the chance of aircraft accidents and damages due to wind shear.
- **Building Construction:** mitigation of property damage has been most successful in areas specifically designated special flood hazard areas through the implementation of construction codes, land-development regulations and growth management policies.
 - Development prior to the adoption of various mitigation policies and regulations remains more susceptible to damage. Public education programs have been developed to assist businesses and residents in learning about retrofitting techniques. Mitigation strategies

have also included repetitive loss acquisitions, structural elevations, wind retrofit projects, critical facility retrofits and acquisition of designated conservation areas.

- Techniques for reducing damage by lightning exist and have been incorporated into building standards. Some of these techniques include grounding various electrical components to lead the lightning away from a structure. Power surge protectors including “whole house protection” are also promoted by utilities to minimize damage.¹
- Food facilities, including agricultural, must be constructed to a minimum standard of cleanliness and functionality. Certain guidelines MUST be met in building construction that prevent contamination of food and water products. All food processing area must be easily cleanable and well lit. Toilet facilities or garbage facilities must be separated from food service/processing areas by multiple walls and/or doors. These requirements are written into the FDA Food Code.
- Food facilities must be constructed to a minimum standard of cleanliness and functionality. Certain guidelines MUST be met in building construction that prevent contamination of food and water products. All surfaces of the food service or processing area must be easily cleanable and well lit. Toilet facilities or garbage facilities must be separated from food service/processing areas by multiple walls and/or doors. These requirements are written into the FDA Food Code.
- ***Building Codes:*** A best practice recommendation for construction in the FEMA Special Flood Hazard Area (SFHA) is to follow accepted ASCE standards including practices such as elevating any new or remodeled construction to a one (1) foot or more “freeboard” above required elevations. These standards are published in their *Flood Resistant Design and Construction* documents such as ASCE 24-05 and the most recent version ASCE 24-14.²
- ***Future Development:*** Development prior to the adoption of various mitigation policies and regulations remains more susceptible to damage. Public education programs have been developed to assist businesses and residents in learning about retrofitting techniques. Mitigation strategies have also included repetitive loss acquisitions, structural elevations, critical facility retrofits and acquisition of designated conservation areas.
- ***Land Development:*** The use of certain amenities and development methods increases the resiliency of large agricultural areas.
 - **Shelterbelts.** Shelterbelts increase moisture retention in agricultural systems while limiting movement of certain pests/pathogens of plants and animal species. This not only increases resiliency against drought but reduces transmission of plant & animal diseases.
 - **Cover Crops.** Cover crops improve soil and water quality by decreasing sediment loss and increase soil organic matter. This is important in times of heavy rains and flooding. Cover

¹ <https://lightning.org/lightning-protection-overview/>

² <https://ascelibrary.org/doi/book/10.1061/asce24#targetText=Abstract&targetText=Flood%20Resistant%20Design%20and%20Construction,subject%20to%20building%20code%20requirements.&targetText=Standard%20ASCE%2FSEI%2024%2D14,ASCE%2FSEI%2024%2D05.>

crops may be protective of agricultural areas from residential/urban contamination, as well as protecting residential areas from agricultural run-off.

- **Barriers.** Certain measures can be constructed to limit wild animals from farm areas, which reduces disease transmitted from those wild species and direct damage to crops due to foraging or predation. Fences, area lighting, cattle guards, hot wires/electric fencing, and sonic speakers are examples of physical and non-physical barriers to exclude wildlife from agricultural areas.
- *Special Flood Hazard Area Setbacks:* land-development regulations developed in response to the county and cities participation in the National Flood Insurance Program have ensured structures constructed within the previous 20 years are elevated above base flood elevations and can withstand potential wave action. In addition, the implementation of Comprehensive Plan policies and the creation of a local Environmental Protection Commission have further minimized flooding impacts.
- *Public Awareness:*
 - Evacuation efforts and the knowledge of the evacuation process assist in moving residents away from areas vulnerable to storm surge which is historically the major hurricane “killer”. However, local officials recognize that public education is a key to the success of any response plan especially in densely population metropolitan communities such as Tampa Bay.
 - There are a variety of public awareness campaigns for consumer food safety by local, state, and federal agencies. The Food and Drug Administration uses the “Fight Bac!” campaign to teach consumers about food safety using four simple categories. The Florida Department of Health provides consumer, employee, and business training tools on their website. September is national food safety education month and serves as a platform for enhanced education on food safety guidelines.
- *Outreach and Education:* Hillsborough County OEM establishes the Outreach and Education Committee to help increase collaboration and reach more residents especially vulnerable populations across Hillsborough County.
 - In 2018, Hillsborough County OEM in partnership with Hillsborough County Code Enforcement and local Community Emergency Response Teams (CERT), disseminated weather radios and educational brochures on hurricane preparedness and mitigation for mobile home park residents throughout Hillsborough County in 2018.
 - In the Summer 2019, the Hillsborough County Department of Social Services and University of South Florida College of Public Health led the Resilient Hillsborough County Project to develop four outreach programs designed to reach some of our most vulnerable populations.
 - In 2017, the University of South Florida College of Public Health in partnership with the Tampa Bay Street Medicine Team developed a pamphlet to provide to the homeless population during medical outreach and check-up about severe weather events.
- *Diversification:* Also called intercropping and crop rotation. Farmers select and grow multiple types and strains of crops to limit movement or establishment of agriculturally significant

pests/pathogens. Diversifying strains or species also increases the chance that not all of the crops or animals are susceptible to invading pests or pathogens.

- ***H-2A Program:*** The H-2A temporary agricultural program allows agricultural employers who anticipate a shortage of domestic workers to bring nonimmigrant foreign workers to the U.S. to perform agricultural labor or services of a temporary or seasonal nature.³ The implementation of this program ensures adequate/capable persons for labor intensive production schemes, which are common in Hillsborough county (e.g. strawberry and tomato production). This ensures the stability of agricultural systems and timely entry into the market. Conversely, the program ensures safe and equitable housing, wage, and compensation for workers that come to the U.S. for work while mitigating the probability of foreign workers being taken advantage of, subjected to human rights violations or victims of labor trafficking.
- ***Surveillance:*** Public health agencies monitor the occurrence of certain diseases in order to prevent outbreaks from becoming more severe. The CDC Emerging Infections Program has several platforms for monitoring the health of the nation, including Active Bacterial Core Surveillance (ABCs), ArboNet, FoodNet, Healthcare Associated Infections – Community Interface (HAIC), as well as monitoring reports of influenza. The Florida DOH monitors designated reportable events and other disease occurrences locally and reports into the CDCs systems. If an outbreak is detected, the DOH conducts an epidemiologic investigation, responds to control the spread, and coordinates response efforts with state and federal agencies.
- ***Control:*** Control of disease spread is essential to preventing significant disease outbreaks. The two most important features of control strategies are sanitation and vaccination. The mass use of sanitation and vaccination are the main causes of the decline of infectious disease in the U.S. and Europe throughout the 20th Century. Sanitation includes adequate supplies of clean water for drinking and hygiene, safe and wholesome food supplies, management of fecal waste and rubbish. Control of insect vectors like mosquitoes, through biologic (e.g. mosquito fish) or chemical methods (e.g. fogging) is another important method of disease control. Vaccination has been responsible for the extreme reduction or elimination of many diseases in the U.S. Below is a sampling of vaccine-preventable diseases today; more vaccines are under development or are available by emergency situation only.⁴

³ <https://www.uscis.gov/working-united-states/temporary-workers/h-2a-temporary-agricultural-workers>

⁴ Centers for Disease Control and Prevention. (2016, November 22). Recommended Vaccines by Disease. *Vaccines and Preventable Diseases*. <https://www.cdc.gov/vaccines/vpd/vaccines-diseases.html>

Table I.1: Vaccine-Preventable Diseases

Chickenpox	Meningococcal Disease	Tetanus (Lockjaw)
Diphtheria	Mumps	Whooping Cough
Flu (influenza)	Pneumococcal Disease	Adenovirus
Hepatitis A	Polio (poliomyelitis)	Anthrax
Hepatitis B	Rotavirus	Cholera
Human Papilloma Virus (HPV)	Rubella (German Measles)	Japanese Encephalitis
Measles	Shingles (Herpes Zoster)	Rabies
Smallpox	Tuberculosis	Typhoid Fever
Yellow-Fever		

- **Strategic National Stockpile:** The Strategic National Stockpile (SNS) is the nation’s largest supply of potentially life-saving pharmaceuticals and medical supplies that may be needed in the case of a public health emergency severe enough to exhaust local supplies. The SNS has been used several times in recent years, including during the 9/11 attacks, natural disasters, H1N1 PanFlu, Ebola outbreak, and the Zika virus. The packs include antibiotics, chemical antidotes, antitoxins, vaccines, antiviral drugs, Personal Protective Equipment, and ventilators, among other things.
- **Inspections/Audits:** Regulatory agencies may conduct scheduled, routine, or random inspections and audits of food facilities. Health department inspection findings must be maintained on record by the facility. Regulatory agencies may require compliance or corrective action. Failure to comply can result in punitive action (i.e. fines, product seizure, or closure). Non-regulatory agencies and corporations may similarly require inspections or audits for continuation of a contract or purchase of goods. Corrective actions requested by these agencies carry no punitive consequences, but that group can decide to not purchase from the food establishment.
- **Certification:** A number of regulatory and non-regulatory organizations provide certification of food safety training or capability of any food facility. The Florida DOH requires the presence of at least one Certified “Food Manager”, who is responsible for food preparation at certain food establishments (e.g. schools, caterers, and detention facilities). Certified “Food Managers” must pass a written test that demonstrates basic knowledge of food protection practices. Food ServSafe is not a required certification in the food industry but is highly valued. Those certified in ServSafe complete either online or in-person seminar training, followed by written exam to demonstrate understanding of food safety and sanitation. ServSafe training and certification must be renewed on a regular basis.
- **Process Controls:** Food processing facilities implement a variety of controls for both product quality and safety. Food quality controls, also called quality control points (QCPs), are

implemented for issues or concerns that threaten the integrity of a recipe, marketing, or reputation of the food products. Critical control points are implemented for issues that may or will cause significant food safety concerns. These process controls are required to be written into practice, reviewed on a regular basis, and employees trained in their implementation.

Potential Jurisdictional Mitigation Strategies

- **Ecological Conservation Projects**: Implement ecological conservation projects aimed to protect coastal and riverine areas of Hillsborough County that are more vulnerable to storm surge and flooding events including:
 - Target for conservation easements and outright purchase undeveloped land along water bodies to establish buffer zones. This strategy would also protect water quality and natural systems.
 - Target for easements and outright purchase areas which have already been identified as effective for water storage, or that are adjacent to the 100-year floodplain and thus pose a future flood risk due to climate change impacts.
 - Encourage and support green infrastructure, especially in low-lying and flood-prone areas, to attenuate excess rainfall. Green infrastructure includes green roofs/walls, rain gardens, public/park space, and other catchment basins which could have dual uses. This also includes using bioswales and other nature-based infrastructure around the perimeters of reservoirs and catchment areas.
 - Encourage and support living shorelines and embankments, particularly within riverine flood plains and estuaries. This includes the restoration of mangroves and other wetlands within and adjacent to flood-prone areas.
 - Strengthen cooperation and collaboration with county and municipal governments to ensure flood hazard mitigation efforts are coordinated across the District's and local governments' strategic and comprehensive plans. This includes assisting local governments with developing and implementing nature-based adaptation strategies within their jurisdictions.
 - Utilize existing park system to create multi-functional green spaces for retention, absorption and distribution of water integrated into recreation features. Using green city space and parks as a first defense against storm surge protects the built infrastructure.
 - Explore code changes that may be required to consider parks in a green infrastructure context.
- **Green Infrastructure Codes and Guidance**: Future development should include codes and guidelines that integrate green infrastructure techniques that reduce flooding to areas of concern. These recommendations include the following:
 - Minimizing connected impervious areas. Strategies include disconnecting impervious areas by intersecting green practices prior to it reaching a storm drain or reducing the overall amount of impervious area and incorporating sustainable hydrology practices into urban redevelopment.

- Preserving and enhancing the hydrologic function of unpaved Areas. Strategies include protecting significant tracts of critical lands and wildlife habitat to contribute to the improvement and protection of water quality, installing protective tools in place around wetlands, riparian areas, and floodplains to reduce pollutant loads and hydrologic alterations to water bodies, minimizing building footprint area, preserve topsoil structure, sensitive wetlands, washes, soils and stream buffers.
- Harvesting rainwater to enhance potable and non-potable water supply. Strategies include revision of the plumbing, building and zoning codes to route rainwater to natural and landscape areas throughout a site.
- Allowance and encouragement of multi-use stormwater controls. Strategies include open space networks to provide large areas for the infiltration and purification of storm water.
- Management of stormwater to sustain stream functions. Strategies include replicating the predevelopment hydrology of the site, maintaining water quality functions of the watershed, and minimizing channel erosion and downstream flooding.
- *Social Vulnerability Analysis to Develop Proposals for Future Mitigation Projects*: Conduct a robust vulnerability analysis and prioritize flood hazard protection measures in the most socioeconomically vulnerable communities that are identified.
- *Enhance Outreach and Education*: Increase public outreach and education efforts, particularly in schools, to enhance citizen awareness of flood hazard prevention. This includes forming citizen committees, particularly in vulnerable and disadvantaged communities, as well as conducting annual surveys to assess public awareness of regional flood hazards and the role of citizens in contributing to adaptation and mitigation.
 - Boldly brand the County’s resilience initiative and invest in a highly visible public outreach campaign.
- *Resilient Living: Creating Connected and Strong Neighborhoods*: Integrate decision-making on county resources to improve social equity and strengthen multimodal connections.
 - When development projects are proposed, make sure streetscape improvements are integrated with resilient features (i.e., green infrastructure, permeable surfaces).
 - Engage and collaborate with the Housing Authority and invest in household stability.
 - Promote transparency and allow the community to track city progress.
 - Break down silos at county level - All projects should accomplish multiple goals for mitigating risk and be coordinated through multiple disciplines within County governance.
- *Communicating Risk*: Create a TV or radio broadcast channel (or some other media) for informing vulnerable communities about flood risk, impending flood hazards, and ways in which citizens can contribute to flood mitigation through nature-based adaptations. Ensure information on programs is readily available, in multiple languages and in a convenient and engaging communication platform.
- *Increasing Social Networks*: Strengthen cooperation and collaboration with county and municipal governments to ensure flood hazard mitigation efforts are coordinated across the District’s and

local governments' strategic and comprehensive plans. This includes assisting local governments with developing and implementing nature-based adaptation strategies within their jurisdictions.

- Debris Reduction Measures: Developing strategies to minimize the amount of debris that can become airborne. Property maintenance regulations should be adopted and enforced including areas near trash piles, junkyards, and unkempt properties since this can lead to increased damage from airborne debris. Buildings that are improperly constructed or maintained are more susceptible to wind events and contribute to airborne debris.
- Business Continuity: It is important for businesses in coastal areas and locations susceptible to the effects of tropical storms and hurricanes to take into consideration the possibility of an interruption in the production of products or services, and other businesses that they may rely on not being in operation. A tropical cyclone can lead to the disruption of economic activity in communities throughout Hillsborough County due to the effects of storm surge and in-land flooding, damages due to wind and debris, and the potential loss of electricity. Businesses in Hillsborough County need to develop a business continuity plan that takes into consideration their business operations, preparedness measures for their employees and support in their recovery, and to develop a strategy to support their local community in mitigating the risks tropical storms and hurricanes have on the area in which they operate.
- Food Safety Modernization Act: The 2011 Food Safety Modernization Act (FSMA) is changing the paradigm of food safety from a responsive system to a proactive system. The policy also attempts to maximize resources by partnering government and non-government entities. FSMA has 7 finalized major rules to implement. This is the first major revision of the food safety system since the implementation of the 1906 Food and Drug Act. Many of these rules apply directly to the agricultural sector including provisions on water sanitation and usage, availability of amenities/facilities for workers, and more stringent traceability guidelines. The FSMA rules are in the implementation phase with the final implementation concluding in 2020.
- Cyber Protection: The increasing reliance of agricultural systems on information and geospatial technologies, requires increasing protection of the cyber-systems. This goes beyond the application of basic firewalls and antivirus. As critical infrastructure, agricultural cyber-systems require additional integrated anti-threat protections.
- Building Construction: Agriculture related buildings/structures are often light construction barns, shed, and green houses. These structures are particularly vulnerable to the impacts of extreme weather events (e.g. thunderstorms, tornadoes, and hurricanes). Additionally, housing for seasonal and migrant farm workers may be similarly vulnerable to the same hazards. Strategic development of fortified structures for high value property and workers may increase resiliency for future hazards. Fortification of worker housing may also allow workers to shelter on property to monitor and respond to issues.
- Novel Surveillance Systems: Increased reliance on technology applications, including web-based data systems, lidar, and geographic information systems, present certain challenges and vulnerabilities. However, use of these technology platforms is also revolutionizing the area of vulnerability analysis and damage assessments in agriculture.

- **Multimodal Surveillance and Assessment Methods.** In 2017, the Florida Department of Agriculture conducted a novel damage assessment methodology involving survey of agricultural workers and farm owners combined with aerial imagery techniques and drone surveillance. This method increased accuracy of damage assessments and has been replicated to determine damages from Hurricane Michael (2018) in the Florida panhandle.
- **Integrative Data Management Systems.** Web-based traceability systems allow immediate response to perceived threats to the food and agricultural industries. These surveillance and response efforts are coordinated across large regional, even national or international, areas due to the use of advanced integrative data technology. The U.S. Famine Early Warning System Network (FEWS Net) and United Nations Resilience Measurement and Analysis (RIMA) systems allow early.
- **Social Media Surveillance.** One such method is social media surveillance. People interact with social media on a daily basis sharing thoughts, feelings, and activities. Social media can be used to detect outbreaks by monitoring for increased word use or phrases (e.g. sick, “home with a cold”, etc.).
- **Purchase Surveillance.** Many stores operate on computerized networks today. Some are looking into using these systems to monitor purchases to detect increased purchase of certain pharmaceuticals or medical supplies.
- ***Conservation in Agricultural Systems:*** Many practices in agriculture threaten the diversity and resiliency of ecosystems, but many farm owners and leaders in the agricultural industry are working to assimilate conservation approaches in their operations. Incorporation of some conservation methods also opens funding opportunities for farmers.
 - **Biologic Controls.** Biologic controls are the deliberate use of natural enemies - predators, parasites, pathogens, and competitors to suppress and maintain populations of a target pest species (insects, mites, weeds, plant pathogens, and other pest organisms). The acceptance of certain native insects and animal species in production can reduce intrusion of other invasive or significant pests/pathogens. Snakes, for instance, consume rodents that could cause direct harm to crops. Dragonflies and bats are important predators for moths, mosquitoes, and other insects that may be harmful to plants and animals. Building amenities or protecting these species can improve the balance of the agricultural-ecosystem.
 - **Renewable Energy.** The use of renewable energy sources (e.g. wind, solar, and biomass) decreases reliance on related infrastructure components. Use of these energy sources can increase return to operation following extreme weather events and limits disruption of operations due to utility failures.
 - **Agricultural Conservation Easements.** The Agricultural Conservation Easement Program (ACEP) is a deed restriction that landowners voluntarily place on their property to protect, restore, and enhance resources such as productive agricultural land, ground and surface water, wildlife habitat, wetlands, and grasslands. Strategic protection and reclamation of

wetlands improves water quality and water capacity. It also provides an important habitat for wildlife adjacent to (instead of within) the agricultural-ecosystems.⁵

- **Food Defense:** Food defense is a relatively new concept in the agricultural and food industries. The concept was introduced into the 2011 Food Safety Modern Act in December 2013. The food defense rule applies to specific food processing operations but can be applied in the wider food industry to protect food in all phases of the food chain. Food defense involves six basic rules or principles to protect food from intentional contamination.
 - **Develop a plan** – Any plan is better than none. The plan should be tailored to the facility and type of operation. Measures should be taken to test the plan on a routine or randomized basis.
 - **Safeguard the exterior** – This may include ensure that doors and windows are secure, adding exterior security lighting, storing outdoor equipment or supplies in a gated area or secure shed, establishing exterior security monitoring or on-site monitors.
 - **Establish an employee and visitor program** – This may include installing interior security monitoring, establish visitor monitoring rules that establish restricted areas to protect food, restricted areas should have clear signage, employees should be trained to question visitors and unknown persons in restricted areas.
 - **Defend material receiving process** – Process controls should be established to protect food and materials at receipt into any food facility. These protections include review and verification of receipt materials by more than one person, establishing security monitoring at loading areas, not leaving incoming food and materials unattended in unsecure areas, and restricting non-essential employees and visitors from the receiving areas.
 - **Establish food defense operation controls** – This may include routine or randomized testing of food products, metal detection, visual inspection of products for tampering, reporting procedures for suspected contamination, and response and investigation procedures.
 - **Finished goods food defense measures** – This may include security monitoring of areas where finished food products are stored or presented to the public, visual inspection of finished products for package damage or other signs of tampering, restricting the area to prevent or minimize unnecessary foot traffic, etc.

Mitigation Strategies for Individuals and County Residents

There are several important things Hillsborough County business owners, residents, and visitors can do to protect themselves from natural disasters.

⁵ <https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/easements/acep/>

- Have a plan. Know your evacuation routes and where you will go if you are told to evacuate due to flooding. You may have to find a shelter in another city or stay with a family member or friend.
- Make sure to check out the FEMA Flood Map Service Center where you can *Search by Address* at <https://msc.fema.gov/portal/search>. This tool shows if your home is in a flood zone. If you are not in an evacuation area or flood zone, you may still be severely affected.
- Watch the news. The event will be heavily covered by the news, radio, and other media outlets. Important information will be distributed this way.
- You may experience power outages, structural damage to your home, and severe weather due to rain or flash flooding. Plan for these by reinforcing your home ahead of time.
- If flooding occurs, get to higher ground. Stay away from flood-prone areas, including dips, low spots, valleys, ditches, washes, etc.
- Avoid flooded areas or those with rapid water flow. Do not attempt to cross a flowing stream. It takes only six inches of fast flowing water to sweep you off your feet.
- Do not allow children to play near high water, storm drains or ditches. Hidden dangers could lie beneath the water or water could be strong enough to pull individuals underwater. There are few incidents where individuals in Pinellas County were playing in flood waters only to be swept away by the water and pulled into storm drains where they then drowned.
- Flooded roads could have significant damage hidden by floodwaters. NEVER drive through floodwaters or on flooded roads. Water only two feet deep can float away most automobiles.
- Do not camp or park your vehicle along streams and washes, particularly when threatening conditions exist.
- Be especially cautious at night when it is harder to recognize flood dangers.
- Purchase and monitor NOAA All Hazards Weather Radio or visit www.flashweatheralerts.org to download a severe weather alerts App for your iOS or Android powered device.
- Stay away from contaminated water to prevent infection from water borne diseases.
- Empty out collected water to prevent mosquito invasion.
- Put together a "Go Bag." This bag should contain anything you might need to survive on your own for at least 7 days. Included within the bag should be non-perishable food, drinking water, an emergency battery-powered or hand-crank weather radio, first aid kit, a local map, a flashlight, batteries, and more.
- Bring all unsecured items that could become windborne from outside your home or office to an inside secure area – ask neighbors to do the same. Replace gravel/rock-landscaping materials with fire-treated, shredded bark or other lightweight mulch to eliminate the potential for them to become windborne projectiles. Trim and anchor trees and foliage. Get your home or business inspected to assure you have wall-to-foundation (anchor bolts/re-bar) connections.
- Bolt all doors with foot and head bolts with a minimum one-inch bolt throw length. Reinforce the garage door and tracks. Brace all gable end walls with horizontal and/or diagonal braces.
- Cover all large windows, doors and especially patio doors with securely fastened, tested, and approved impact-resistant shutters with proper mounting hardware, or replace them with impact-resistant shutters with proper mounting hardware, or replace them with impact-resistant

laminated window and door systems if feasible. Make sure all doors and windows are properly caulked and/or weather-stripped to reduce potential water intrusion. Install a roof covering that is rated for high wind and impact from hail or debris. Strap, tie-down any free-standing fixtures in your yard. Fasten rafters/trusses to walls with hurricane straps/clips.

- If reroofing, select an impact-resistant roof covering that has passed the UL2218 or FM4473 impact resistance test with a rating of Class 1 through Class 4. The most impact-resistant rating that is highly effective against hail damage is the Class 4. Select an established, bonded, licensed, and insured contractor for reroofing and secure at least two references.
- If hail is forecast, close your drapes, blinds, or window shades to prevent potential injury from broken glass blowing inside.
- Install Surge Protective Devices to protect electronic and electrical appliances from all but the most severe electrical surges or direct strikes. They should be installed at all items to be protected.
- Stay alert and listen carefully for the first signs of lightning or thunder. Remember, “If Thunder Roars, Go Indoors™.” Seek shelter. Lightning often hits before the rain begins, so do not wait for the rain to start before leaving.
- Do not try to go outside to protect your property during a storm. Stay indoors until the storm has passed. Stay away from skylights, windows, and doors.
- If you are outdoors, immediately leave elevated areas such as hills, ridges, or peaks. Never lie flat on the ground. Never shelter under an isolated tree. Never use a cliff or rocky overhang for shelter. Immediately get out and away from ponds, lakes, and other bodies of water. Stay away from objects that conduct electricity (barbed wire fences, power lines, etc.).
- If you are indoors, avoid water and stay away from doors and windows. Do not use the telephone or headsets. Cell phones are ok. Turn off, unplug, and stay away from appliances, computers, power tools and televisions as lightning may strike exterior electric and phone lines inducing shocks to equipment inside.
- Following an event, verify that you can safely move around outside by avoiding any broken or downed branches and power lines.
- Check the trees, shrubs, and plants around your house. If they are stripped of their foliage, there is a possibility your roof is damaged. Dented patio covers, screens or soft aluminum roof vents could also indicate roof damage.
- Cover any broken windows and holes in your roof to prevent water intrusion following any damages that may occur during the storm.
- Do not resume activities for at least 30 minutes after the last lightning strike or thunderclap.
- Call 911 immediately if anyone is injured and use first aid procedures and administer medical treatment. Lightning victims do not carry an electrical charge, so it is safe to assist.

In the event of a **Power Outage** caused by grid failure or severe weather, make sure to take into consideration the following steps to safely prepare and respond:

- Remember to include power outages in your family disaster plan. Keep extra cash on hand since an extended power outage may prevent you from withdrawing money from ATMs or banks.

- Keep a complete disaster supply kit handy with water, non-perishable foods, medicine, baby supplies and pet food and more.
- Only open your refrigerator or freezer when necessary and remember that food should be safe to eat so long as the outage lasts no more than four to six hours.
- Have one or more coolers with ample ice for cold food storage in case power outage is prolonged. Perishable foods should not be stored for more than two hours above 40 degrees Fahrenheit.
- Have an emergency power supply for anyone dependent on electric medical equipment.
- Keep a supply of flashlights, batteries, hand-crank cell phone chargers, battery, and solar-powered radios on hand. Do not use candles as they pose a fire hazard.
- Connect only individual appliances to portable generators and never plug a generator into wall outlets. Plugging generators into the home's electrical system can feed electricity back into the power lines and endanger both you and line workers. Use gas-powered generators only in well-ventilated outdoor areas.
- Be careful when driving through intersections as traffic lights may be out, creating a dangerous situation.
- Turn off any electrical equipment that was in use prior to the power outage, but leave one light on to alert you when power resumes.
- Check on elderly neighbors, friends, or relatives who may need assistance if weather is severe during the outage.
- Keep your car fuel tank at least half-full since many gas stations rely on electricity to power their pumps.
- When power is restored, wait a few minutes before turning on major appliances to avoid problems caused by a sharp increase in demand.

There are several important things individuals and residents can do to protect themselves from disease outbreaks and biological incidents:

- Wash up: Handwashing is one of the most important things an individual can do to prevent the spread of germs that can cause disease. You should wash your hands before handling food or eating food, after caring for someone who is sick, after using the toilet or cleaning up a dirty diaper or child that has used the toilet, after blowing your nose, coughing or sneezing, after handling pet food or treats, or after touching garbage. The CDC recommends the following six-step process optimal hand washing:
 - **Wet** your hands with clean, running water (warm or cold), turn off the tap, and apply soap.
 - **Lather** your hands by rubbing them together with the soap. Lather the backs of your hands, between your fingers, and under your nails.
 - **Scrub** your hands for at least 20 seconds. Need a timer? Hum the "Happy Birthday" song from beginning to end twice.
 - **Rinse** your hands well under clean, running water.
 - **Dry** your hands using a clean towel or air dry them.

- Get Vaccinated: Speak to your healthcare provider for benefits and recommendations for vaccination.
- Be Aware: Residents should maintain awareness of current events through TV or online news media outlets of current events. If an outbreak is occurring healthcare professionals or the local government will notify news media of the risks and things people can do to protect themselves.
- Consumers should be aware of food contamination risks. Watch out for signs of product tampering (e.g. damaged packaging, popped lids, punctures or cuts in products, etc.) or anything that does not look right. If something does not look right, then say something. Contact an employee, manager, or owner to report the issue. Residents should be aware of farmland located around the area.
- Stay Informed: Listen to recommendations from local, state, and national healthcare experts. Talk to your healthcare provider for information on food and waterborne disease and how to stay safe should an outbreak occur.
- Seek Treatment: Seek treatment if you or a loved one are experiencing signs or symptoms that you find concerning. If you believe that you have a disease that may be contagious, limit contact with other people by staying home or avoiding crowded settings. If you are experiencing these symptoms, do not touch other people's food or communal or public food preparation areas.

There are several important things individuals and residents can do to protect themselves from food and waterborne disease.

- Safe Food Handling: The FDA provide a clear 4-step process that consumers can use for safe food handling.
 - Clean
 - Wash your hands with warm water and soap for at least 20 seconds before and after handling food and after using the bathroom, changing diapers, and handling pets.
 - Wash your cutting boards, dishes, utensils, and counter tops with hot soapy water after preparing each food item.
 - Consider using paper towels to clean up kitchen surfaces. If you use cloth towels, launder them often in the hot cycle.
 - Rinse fresh fruits and vegetables under running tap water, including those with skins and rinds that are not eaten. Scrub firm produce with a clean produce brush.
 - With canned goods, remember to clean lids before opening.
 - Separate
 - Separate raw meat, poultry, seafood, and eggs from other foods in your grocery shopping cart, grocery bags, and refrigerator.
 - Use one cutting board for fresh produce and a separate one for raw meat, poultry, and seafood.
 - Never place cooked food on a plate that previously held raw meat, poultry, seafood, or eggs unless the plate has been washed in hot, soapy water.

- Do not reuse marinades used on raw foods unless you bring them to a boil first.
- Cook
 - Color and texture are unreliable indicators of safety. Using a food thermometer is the only way to ensure the safety of meat, poultry, seafood, and egg products for all cooking methods. These foods must be cooked to a safe minimum internal temperature to destroy any harmful bacteria.
 - Cook eggs until the yolk and white are firm. Only use recipes in which eggs are cooked or heated thoroughly.
 - When cooking in a microwave oven, cover food, stir, and rotate for even cooking. If there is no turntable, rotate the dish by hand once or twice during cooking. Always allow standing time, which completes the cooking, before checking the internal temperature with a food thermometer.
 - Bring sauces, soups and gravy to a boil when reheating.
- Chill
 - Use an appliance thermometer to be sure the temperature is consistently 40° F or below and the freezer temperature is 0° F or below.
 - Refrigerate or freeze meat, poultry, eggs, seafood, and other perishables within 2 hours of cooking or purchasing. Refrigerate within 1 hour if the temperature outside is above 90° F.
 - Never thaw food at room temperature, such as on the counter top. There are three safe ways to defrost food: in the refrigerator, in cold water, and in the microwave. Food thawed in cold water or in the microwave should be cooked immediately.
 - Always marinate food in the refrigerator.
 - Divide large amounts of leftovers into shallow containers for quicker cooling in the refrigerator.
- Respect the Borders: Unregulated import of plant and animal goods is an important factor in the movement of plant and animal diseases. Residents and visitors can protect the county's agricultural systems and ecosystems by submitting all plant and animal products for inspection at the border. If you suspect that any plant, animal or, food product is unsafe, then that product should be left at the place of origin.
- Limit Chemical Use: Non-point source runoff from housing/residential areas can harm local ecosystems, including Agri-ecology. Limiting use of certain pesticides (e.g. organophosphates) and fertilizers improves the overall health of local ecosystems and protects nearby agricultural land.
- See Something, Say Something: If you see someone or something that looks out of the ordinary on farm properties contact someone. Farmers work on a very narrow profit margin, so even minor incidents (e.g. pipe bursts or area fires) can cause significant disruption to that operation. Residents and visitors should contact the property owner, if that information is available. If the property owner cannot be reached, then calling the appropriate emergency management or utility department in the county can expedite assistance.