

# TOWN OF OCEAN RIDGE

6450 NORTH OCEAN BOULEVARD

OCEAN RIDGE, FLORIDA 33435

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## Activity 510 Floodplain Management Plan Annual Progress Report for the Town of Ocean Ridge, Florida August 2010

The purpose of this report is to explain the progress that occurred this past year (2009-2010) in implementing the Town's Stormwater Drainage Plan and what improvements are planned for 2011. The Town Manager, Ken Schenck, Town's consulting engineer, Engenuity Group, Inc. and the Town's NFIP Coordinator, Lisa Burns, prepared this report. The report briefly reviews the enforcement and maintenance of the Flood Damage Prevention Ordinance, Stormwater Management Plan, and Drainage System Maintenance Standard Operating Procedure.

The Town of Ocean Ridge is a small coastal community in Palm Beach County. The Town adopted the Countywide Local Mitigation Strategy (LMS) with Palm Beach County and in 1993 adopted its own Flood Damage Prevention Ordinance. The Town's goals have been to educate the residents to become aware of flood warnings, to be more aware of flood safety procedures, enhance flood insurance awareness, and to mitigate drainage issues within the Town.

The Town is an active participant in the County Wide Community Rating System (CRS) and attends monthly meetings. Ocean Ridge continues to update the flood information section on their website, in their newsletters, as well as provide literature at Town Hall. The Town of Ocean Ridge has been verified as a Class 7 rating in the National Flood Insurance Program's (NFIP) Community Rating System (CRS) as of May 2009 (a positive increase in rating from previous Class 8). NFIP policies issued or renewed for properties in the Special Flood Hazard Areas (SFHAs) will receive a 15% premium discount.

Copies of the Town's Stormwater Drainage Plan and previous annual progress reports can be found at Town Hall. The report for 2009-2010 will be made available at Town Hall, published on the Town's website

[www.oceanridgeflorida.com](http://www.oceanridgeflorida.com), published in the Ocean Ridge Reporter newspaper, and in the Ocean Ridge Tidings email newsletter. In addition, Palm Beach County is responsible for notification of the LMS to the public and media.

For 2010, planned projects include drainage improvements on Spanish River Drive and the Oceanview/Douglas Drive area. The only remaining area to be addressed is the west end of Coconut Lane. We hope to address this area in 2011.

All catchment grills, basins, outfalls, pipes, swales, ditches and the pump station within the Town are thoroughly inspected quarterly by Engenuity Group, Inc. and recorded in the Ocean Ridge NPDES Inspections booklet by Engenuity Group, Inc. The Town's Public Works Department conducts daily visual checks of catchment grates, swales, ditches, and the two pump stations during their rounds. The Town Hall notifies the Police Department (as needed), Public Works Department and Town Engineer (as needed) when residents notify the Town of any drainage, illicit discharge, and dumping issues. If any action is required, the Town Manager, Public Works Department, and/or the Police Department will inspect, coordinate with the Town Engineer and results annotated on the Drainage System Maintenance Log and recorded by the NFIP/CRS Coordinator. Other inspections and maintenance (NPDES, etc.) logs are kept on file with the Town Engineer.

Street sweeping is conducted quarterly by a contractor. The contractor sweeps a total of 18 curb miles of the total right-of-way (9 miles on each side) and removes an estimated 6 cubic yards of debris each quarter. This is disposed of in the designated Town dumpster which is located behind the Public Works facility. The storm drains are cleaned out annually.

Approximately 63,360 linear feet of swales/ditches are inspected and maintained.

At the end of the calendar year, an annual National Pollutant Discharge Elimination System (NPDES) report is submitted to the Florida Department of Environmental Protection.

On behalf of the Town, Engenuity Group, Inc. continues to review new construction permit applications for compliance with Town ordinances for drainage, swale construction, and finish floor elevations. Projects increasing their impervious area by over 10 percent are also reviewed to meet the code. The Town's Building Official, Hy-byrd, Inc., also continues to enforce the requirements of our Flood Damage Prevention Ordinance including freeboard of one foot above base elevation.

This report was presented to the Town Commission at the August 2010 Regular Town Commission Meeting and was reviewed and approved.

**NFIP/CRS Activities**  
Town of Ocean Ridge  
6450 N. Ocean Blvd. \* Ocean Ridge, FL 33435  
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**Activity 510: Floodplain Management Plan and Activity 540: Drainage Maintenance System Problem Areas**

Problem Site	Drainage Issue	Recommended Measures
<p><b>South Phase Project</b></p> <ul style="list-style-type: none"> <li>• Douglas Drive</li> <li>• Oceanview Drive</li> <li>• Tropical Drive</li> <li>• Hersey Drive</li> <li>• Sailfish Lane</li> <li>• Fayette Drive</li> <li>• Osprey Drive</li> <li>• Dolphin Bend</li> <li>• Dolphin Drive</li> <li>• Beachway Drive</li> <li>• Beachway North</li> <li>• Osprey Court</li> <li>• David Lane</li> <li>• Adams Road</li> </ul>	<ul style="list-style-type: none"> <li>• Road flooding</li> <li>• Property damage</li> <li>• Access issues</li> <li>• Safety issues</li> <li>• Deteriorated piping</li> <li>• Undersized piping</li> <li>• No pretreatment</li> <li>• Basin lower than surrounding perimeter roads</li> <li>• Goundwater intrusion</li> <li>• Tidal influences</li> <li>• Limited/no swales</li> <li>• Deteriorated roads</li> </ul>	<ul style="list-style-type: none"> <li>• South Phase Project construction completed in 2007.</li> <li>• Continue to monitor pumping stations located on Tropical Drive and Woolbright Road.</li> <li>• Provided a permanent location for the Tropical Drive Pump Station generator.</li> <li>• Continue with swale implementation whenever applicable.</li> <li>• <i>Douglas Drive &amp; Oceanview Drive mitigation planned for 2010.</i></li> </ul>

Problem Site	Drainage Issue	Recommended Measures
Harbour Drive South	<ul style="list-style-type: none"> <li>• Standing water in roadway</li> <li>• Tidal issues</li> <li>• Deterioration of drainage pipes</li> </ul>	<ul style="list-style-type: none"> <li>• Replaced several catch basins and pipes within right-of-way in 2007.</li> <li>• Red valve installed in 2008-09.</li> </ul>
Harbour Drive North	<ul style="list-style-type: none"> <li>• Standing water in roadway</li> <li>• Tidal issues</li> <li>• Deterioration of drainage pipes</li> </ul>	<ul style="list-style-type: none"> <li>• Cleaned and evaluated the pipe.</li> <li>• Pipe replaced in 2008-09.</li> <li>• Red valve installed in 2008-09.</li> </ul>
Hudson Avenue	<ul style="list-style-type: none"> <li>• Road flooding</li> <li>• Property damage</li> <li>• Road integrity diminished due to continued saturation of road</li> </ul>	<ul style="list-style-type: none"> <li>• Constructed a new elevated road</li> <li>• New drainage system constructed 2005/2006</li> <li>• Continue to monitor performance of improvements.</li> </ul>
Coconut Lane	<ul style="list-style-type: none"> <li>• Road flooding</li> <li>• Property damage</li> <li>• Low lying road and homes</li> <li>• Tidal issues</li> <li>• Cul-de-sac flooding</li> <li>• Access issues</li> <li>• Outfall issues</li> </ul>	<ul style="list-style-type: none"> <li>• Rehabilitated curbing and drainage – completed 2007</li> <li>• Pumping Station design complete. Permit issued.</li> <li>• Received funding in 2009 for pump station construction. Work pending.</li> <li>• <i>West end of Coconut Lane to be addressed in 2011.</i></li> </ul>

Problem Site	Drainage Issue	Recommended Measures
Town Hall	<ul style="list-style-type: none"> <li>• Drainage near jurisdictional wetlands</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor site for any adverse encroachments.</li> <li>• Construction completed Fall 2008.</li> </ul>
Spanish River Drive	<ul style="list-style-type: none"> <li>• Road flooding during high tide</li> <li>• Deteriorating pipes</li> <li>• Outfall issues</li> <li>• Limited swales</li> <li>• Collapsed outfall pipe</li> </ul>	<ul style="list-style-type: none"> <li>• Replace road piping and catch basins.</li> <li>• Replace red valve to address tidal issues.</li> <li>• Install additional valley gutter for better flow of drainage. Construction completed August 2008.</li> <li>• <i>Additional Spanish River Drive mitigation planned for 2010.</i></li> </ul>
Eleuthera Drive	<ul style="list-style-type: none"> <li>• Outfall pipe deterioration</li> <li>• Roadway pipe deterioration</li> <li>• Catch basins undersized</li> </ul>	<ul style="list-style-type: none"> <li>• Replace outfall pipe.</li> <li>• Replace red valve.</li> <li>• Replace road piping and catch basins.</li> <li>• Construction completed August 2008.</li> </ul>
Bimini Cove Drive	<ul style="list-style-type: none"> <li>• Outfall pipe deterioration</li> <li>• Roadway pipe deterioration</li> <li>• Catch basins undersized</li> </ul>	<ul style="list-style-type: none"> <li>• Replace outfall pipe.</li> <li>• Replace red valve.</li> <li>• Replace road piping and catch basins.</li> <li>• Construction completed August 2008.</li> </ul>

Problem Site	Drainage Issue	Recommended Measures
State Road A1A – North Ocean Blvd. (FDOT Road)	<ul style="list-style-type: none"> <li>• Periodic road flooding</li> <li>• Property damage</li> <li>• Access issues</li> <li>• Safety issues</li> <li>• Limited/No swales</li> <li>• Obstructions in right-of-way</li> <li>• Unswaled driveways</li> <li>• Non conforming driveways</li> </ul>	<ul style="list-style-type: none"> <li>• FDOT completed improvements – FEB 2008.</li> <li>• Continue coordination with FDOT on performance of improvements.</li> </ul>

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