

# GLOBAL CARTOGRAPHICS, LLC

6707 WHITEWAY DR, TAMPA, FL 33617 (813) 416-0278



7/11/2019

Steven Fernandez, MA, GISP, CCM  
Global Cartographics, LLC  
6707 Whiteway Dr, Tampa, FL 33617 (813) 416-0278

Town of Redington Beach  
105 164<sup>th</sup> Avenue  
Redington Beach, FL 33708

To whom it may concern,

This letter explains the methods and techniques used to create the Town of Redington Beach Impervious Surface Ratio Map created by Steven Fernandez, MA, GISP, CCM. There are 812 properties with impervious surfaces mapped in this analysis. There are 1,097 individual parcels within the Town, including multi-owner properties. Data for parcels and assessor attributes were obtained from the Pinellas County Property Appraiser's office and is current for July 3<sup>rd</sup>, 2019.

Parcels and assessor attributes were filtered for the Town of Redington Beach. Separate tables for extra features were provided for decks, pools and asphalt features of each property. These tables indicate the presence of an extra feature, but not the square footage or extent.

Impervious surfaces were digitally georeferenced over aerial ortho-photographs obtained from the Florida Department of Transportation Aerial Photo Lookup System. The aerial photography flights were between January-April of 2018 and have a spatial resolution of 6 inches. Aerial LiDAR Digital Surface Models were generated from Florida Department of Emergency Management data to use as a guided for digitizing. The aerial LiDAR data was collected in 2008 and have a spatial resolution of 1 foot.

All visible impervious surfaces were digitized. All attempts were made to identify pools, decks and impervious walkways, parking lots and driveways. In many cases, it was not possible to identify the material type of certain pathways and landscaped areas in fenced or back yards. The most common type of surface that would not be digitized, are gravel walkways and landscaped areas. If not identified, these areas were not included in the impervious surface area digitized. The mapping at 1:4,800 has a map accuracy standard resolution of approximately 13 Feet.

The average Impervious Surface Area Ratio for the Town of Redington is 0.52. The combined area of the parcel extents in the Town of Redington is 156 Acres. Per this analysis, the combined area of impervious surfaces is 81.45 Acres.

Thank you,  
Steven Fernandez, MA, GISP, CCM  
GIS Analyst  
Global Cartographics, LLC