

# CITY OF AUBURN STATE OF ALABAMA

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March 26, 2019

**FROM:** DESIGN TEAM

**TO:** Dr. Jeffrey LaMondia, City Engineer.

**CITY:** Austin, TX.

**Subject:** Suitable locations for future housing development in the City of Austin, TX.

The present memo is to inform you about the possible locations for future project of expansion of the city of Austin, TX. In the map attached is displayed, using a color scale, which are the places we recommend for this kind of construction following the guidelines given. The following will give you a better idea about the process so far:

## **PURPOSE:**

The purpose of this map is to select appropriate areas for future housing development on the city of Austin, TX. All this following the requirements of the city (distances to environmentally sensitive areas, watersheds, areas considered environmentally hazardous, landfills, etc.). The design team considered all that and, according to all the analysis made, there are most and least recommended zones for the housing expansion which are shown on the map in a scale color.

## **METHODS:**

First, using the information obtained, we locate the best highways. The above, given that an adequate distance must be maintained so that the noise does not affect future residents. Then, the requirements of the city were analyzed, such as new developments must avoid floodplain designated areas or areas that have high run off rates to prevent any environmental hazards and that future developments can only be developed in vacant parcels. Thus, using Vectors, Rasters and ArcGIS software tools such as buffer, clip, union, intersect and dissolve, the available places were found as a result.

## **FINDINGS:**

The main findings made by the group were the Rasters with the appropriate distances to the different points to be taken into account in the analysis (City Limits, Major Highways, Landfills and floodplain areas). Using this information and applying a common scale, it was finally possible to find the most suitable locations for the housing developments.

## **LIMITATIONS:**

None to report.

## **SOURCES**

The following is the list of sources used for the development of the project:

- Capital Metro
- Capital Area
- City of Austin
- CAMPO
- Council of Governments
- US Census Bureau.