



CITY OF TAMPA

3.8.10.3. – Quality Assurance and Quality Control (QA/QC) Procedures Technology & Innovation Department

TITLE

3.8.10.3. – QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PROCEDURES

HISTORY

Status	Date	Author	Approving Manager
Version 1.0	01/08/2010	K. Wright and G. De Stoppelaire	R. Austin

DESCRIPTION

The CoT GIS Quality Assurance and Quality Control (QA/QC) steps assess the accuracy and completeness, identify errors, and describe the consequent steps of resolution.

CoT GIS QA/QC involves ensuring the data meets specifications and standards for inclusion in the GIS Enterprise database. The QA/QC steps are as follows:

1. Assess the initial quality of the data:
 - a. Reviewers check the data/layer name – does it meet the naming standard? Can a layperson understand its meaning or content?
 - b. Reviewers check the coordinate system to ensure it meets the standard (NAD 83, State Plane FL West Feet, FIPS 0902).
 - c. Reviewers check table field names – does the name make sense? Can a first time user understand the meaning of the data contained within?
 - d. Reviewers query the database to check unique occurrence of attributes.
 - e. Reviewers check that a maintenance agreement is completed and that the file is stored at: R:\GIS\GIS\GISDocuments\Procedures*FileName*).
 - f. Reviewers check that a metadata template document is complete and accurate.
2. Identify errors, such as:
 - a. Polygon errors (i.e., slivers).
 - b. Line errors (i.e., undershoots, overshoots).
 - c. Symbology errors.
3. Define resolution of the errors.
4. Report the errors to the appropriate data steward for data correction.
5. Reviewers recheck the data once corrections have been made.

Throughout these steps, GIS staff will generate status reports measuring the progress of the QA/QC effort. A [Business Process Modeling Notation](#) (BPMN) is available for this Quality Assurance/Quality Control process.

The GIS Supervisor (or designee) shall ensure that each layer stored in the Oracle Publication database has passed a quality control (QC) test or process and metadata has been completed.



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The GIS Supervisor (or designee) shall ensure that the QA/QC standards and compliance process pass a peer review, and that two different individuals (the data steward and a GIS staff member) have participated in that QA/QC review.

The City has accepted a verified horizontal accuracy for all produced or recorded aerial photography that meets or exceeds the National Standard for Spatial Data Accuracy, and which has been defined by the Southwest Florida Water Management District as follows:

Orthophotogrammetric mapping must meet or exceed a verified horizontal accuracy of 7.6 feet at the 95% confidence interval (4.4 feet RMSE), as specified in the FGDC Geospatial Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy (NSSDA). Check points are to be distributed so that points are spaced at intervals of at least ten (10) percent of the diagonal distance across the dataset and at least twenty (20) percent of the points are located in each quadrant of the dataset.

REFERENCE

The standard described above has been developed internally by the City of Tampa. The standard is part of the T&I Service Catalog.

[City of Tampa – T&I Service Catalog](#)