Champaign County
City of Champaign
City of Urbana
University of Illinois
Village of Rantoul
Village of Mahomet
Village of Savoy

CCGISC Quarterly Update

2017 – Quarter 4

Meeting Summaries

Sanitary Sewer Meeting - Tuesday, November 14, 2017

ENTITY ATTENDANCE:

City of Champaign, City of Urbana, Savoy, UCSD

SUMMARY:

Below is a summary of the meeting discussion items. A follow-up email to this meeting was distributed via email to the Sanitary Sewer Committee members on Friday, December 29, 2017. This email references additional project details.

1. **Regular Updates to System Wide Sanitary Sewer Dataset**

   With the move by UCSD and the entities serviced by UCSD to modeling software created by Innovyze, it is necessary to distribute a topologically accurate system-wide sanitary sewer network with consistent attributes on a regular basis. To meet this need, CCGISC developed an import script. The goal of script is to combine the disparate sanitary sewer databases into a single sanitary sewer network with minimal manual interaction. However, combining the differing databases introduces duplication and overlap errors. These errors were reviewed with the attendees. The meeting attendees acknowledged the importance of 1) resolving conflicting features between the disparate sanitary sewer databases and 2) minimizing the introduction of future conflicts. Cooperation is necessary to update system-wide sanitary sewer database on a regular and on-going basis.

2. **Quality Control (QC) Checks**

   In addition to the import script, CCGISC developed a DRAFT quality control (QC) script. CCGISC staff reviewed the included QC checks and output tables with the meeting attendees. This review prompted a number of questions that require further investigation and documentation. CCGISC plans to continue working on script improvements. Once CCGISC finalizes the script, each agency will receive the output for reference/correction.

ENTITY ATTENDANCE:

City of Champaign, City of Urbana, Village of Savoy, Village of Mahomet, Village of Rantoul

SUMMARY:

Below is a summary of the meeting discussion items. A follow-up email to this meeting was distributed to members of the Addressing Committee on Friday, January 5, 2018. This email references additional project details.

1. **LUCA Preparation**

   CCGISC expects to receive the LUCA materials from the U.S. Census Bureau in February of 2018. Up-to-date address data are critical for accurate 2020 census counts. In preparation for LUCA, CCGISC requested the each agency to update the address database with 1) addresses that will be valid prior to April 20, 2020 and 2) missing sub-addresses identified though a comparison of addresses in Voters database maintained by the County Clerk and the Centralized Champaign County Relational Address Database (CC-RAD).

   In addition, there are a number of University owned housing units (dorms, etc.) with valid mailing sub-addresses that are not entered into CC-RAD. Based on meeting discussions, CCGISC plans to import these sub-addresses to a separate table within CC-RAD rather than have Champaign and Urbana add these units to the Addressing Interface. These units will not be represented as points within the Addressing Interface, however they will be contained in the address views located in the Enterprise Geodatabase (AddressView_Champaign, AddressView_Urbana). In addition, they will be included in the county-wide and agency-wide address exports from the Select/Modify Multiple Addresses panel within the Addressing Interface.

2. **Address Interface Updates**

   CCGISC staff made several updates to the Address Interface. These changes were reviewed with the meeting attendees and incorporated in the Addressing Interface Reference Guide.

Updates

Parcel Fabric

CCGISC staff continues to make progress toward the goal of migrating the parcel base to the Parcel Fabric in 2018. In early December, CCGISC contracted Cloudpoint Geographics, Inc. to help train staff on editing techniques within the Parcel Fabric.   The editing environment is quite different and many procedures that were quick and simple outside of the Fabric are quite time-consuming within the Fabric. CCGISC staff also worked on finalizing the Parcel Fabric schema and data preparation.

Address Database Reconciliation

No progress has been made since the last quarterly update.

2017 OrthoPhotography Acquisition

Kucera provided the compressed jp2 tiles. CCGISC staff created compressed mosaics at a 40:1 ratio for each member agency. The mosaics were delivered to the member agencies via a download link on December 12, 2017.

LUCA

In preparation for the LUCA review process, CCGISC held a meeting with the Addressing Representatives on Wednesday, December 13, 2017 – *see the **LUCA/Address Meeting** heading in the **Meeting Summaries** section of this document for meeting details.*

Sanitary Sewer

CCGISC staff is working to finalize the sanitary sewer quality control scripts based on input received at the November 14, 2017 Sanitary Sewer meeting – *see the **Sanitary Meeting** heading in the **Meeting Summaries** section of this document for meeting details.* Efforts are focused on streamlining the scripts and improving the outputs to assist the entities with their review process. Once finalized, CCGISC will forward a document with review/correction procedures and an explanation of the quality control checks.

Parcel Genealogy

CCGISC and the Assessment office continue to work together in an effort to identify, review, and correct data integrity errors. The error review and correction process requires research and places additional demands on the Assessment office staff. In addition, CCGISC and the Assessment staff are working to put together workflows to improve data entry to prevent the introduction of similar issues going forward. It is anticipated the tool will be available to CCGISC member agencies sometime in the first quarter of 2018.

Drainage Districts

The University of Illinois student volunteer that assisted with this project left at the end of the Spring Semester. CCGISC staff continues to map the drainage districts as time allows. The drainage districts vary in size, but on average, it takes approximately 20-25 hours to map an entire district *(including sub-districts).* Once mapped, the district is provided to the County Clerk's office for review. To date, CCGISC staff has mapped 5 main districts and 18 sub-districts of the 300 total. The anticipated completion date for this project was at the end of 2020, but based on the staff availability and the time consuming nature of this project, the completion date of this project will likely need to be extended to at least 2021.

Disaster Recovery - Microsoft Azure

Costs for implementing a cloud-based back-up and recovery solution using Microsoft Azure were incorporated into the approved FY2018 Capital and Technology Plan. CCGISC and the County originally planned to move forward with the Mircosoft Azure implementation in the first quarter of 2018; however, current and upcoming demands on the County IT and the CCGISC (Parcel Fabric, LUCA, etc.) pushed the start of the implementation process to the third quarter of 2018.

CCGISC Policy Items – January 19, 2018

- The CCGISC Policy Committee approved a 5-year lease agreement with Champaign County; the agreement term is 2017 through 2021.

Work Plan Status Report

The Work Plan Status Report is found on the following page. As always, updates are provided in **bold**.

FY2017 Work Plan Status Report

Task	Status
2017 Improvement Tasks *(Short-term)*	
Implement Parcel Fabric	
1-A Migrate parcel layers to Parcel Fabric	Began in FY2016; to complete in FY2018
Develop Long-term Technology Plan	
2-A Implement 1 - 2 year plan objectives	completed in FY2016
2-B Establish Disaster Recovery Plan	in progress; **implement Microsoft Azure in Q3 of 2018**
Create ISO Compliant Metadata	
3-A Update existing metadata to be ISO compliant	in progress; to complete in FY2018
3-B Create ISO compliant metadata for other layers	in progress; to complete in FY2018
Automate Technical Service Contract Invoices	
4-A Create Relational Database	delayed; waiting to determine when/if County implements new system
4-B Create web-based interface that includes invoice generation	delayed; waiting to determine when/if County implements new system
Implement Long-term Technology Plan	
5-A Implementation of the developed Long-term Technology/Disaster Recovery Plan (Improvement Task 2-B)	to complete in FY2018
Migrate Sales Database to SQL Server	
6-A Migrate the existing Access relational sales database to SQL Server	to complete in FY2018
6-B Create a web-based interface	to complete in FY2018
Investigate and Implement Portions of the Local Government Information	
7-A Investigate and implement portions of the ESRI Local Government Information - specifically the sanitary sewer data model	to completed in FY2019
2017 Work Plan Tasks	
ESRI Linear Referencing for Roads and Highways	
1-A Review Transportation feature dataset	to complete in FY2018
1-B Research and, if feasible, implement ESRI Roads and Highways linear referencing system	**in progress; to complete in Q1 of 2018**
1-C Gather impedance and jurisdiction data	to complete in FY2018
Update StreetCenterline 100-block Data on Even Side of Roadway	
2-A Manually update the even 100-block *from* address range field where appropriate	**to complete in Q2 of 2018**
Public ArcGIS Online Web-Applications	
3-A Continue to develop public ArcGIS Online web applications i.e. polling places	to complete in FY2018
Map Drainage Districts and Subdistricts	
4-A Begin pilot project utilizing Circuit Clerk documents	**complete**
4-B Map drainage districts - county-wide	**to complete in FY2019; 5 main drainage districts & 19 sub districts complete**
Map Drainage District Tiles	
5-A Utilize Circuit Clerk documents to map original location of drainage tiles	to complete in FY2019
Reconcile Drainage Districts and Sub-districts	
6-A Reconcile Drainage Districts and Subdistricts with appropriate county offices	to complete in FY2019
2017 Contract Tasks	
1-A Piatt County	on going - general GIS tasks
1-B Village of Mahomet	on going - general GIS tasks
1-C City of Champaign	on going - general GIS tasks
1-D Urbana Champaign Sanitary District	on going - general GIS tasks

Status updates found in **bold** *Revised January 2018*