

System Management

Sub-Committee



Meeting Notes

Meeting Date: March 29, 2017

Time: 9:00-11:00 am

Meeting Location:

Johnson County Transit Facility, 1701 W Old Hwy 56, Olathe, KS 66061

Attendees:

System Management Sub-Committee

Brad Weisenburger – City of De Soto
Neil Meredith – City of Olathe
Jose Leon – City of Roeland Park
Mike Gregory – City of Shawnee
Tom Jacobs – City of Lenexa
John Sullivan – City of Westwood
Lorraine Basalo – City of Overland Park
Patrick Bean – JC Wastewater
Jason Hrabe – JC AIMS
Brent Johnson – Olsson Associates
Doug Carpenter – GBA
Cliff Speegle – Affinis
Mike Beezhold – HDR
Stacy Gallick – TREKK

JC SMP

Lee Kellenberger
Sarah Smith
Heather Schmidt

Consultant Team

Patti Banks – Vireo
Triveece Penelton – Vireo
Andrew Smith – B&V
Jeff Henson – B&V
Justina Gonzalez – B&V

Agenda Objectives

Highlight available stormwater inventory data in the JC Automated Information Mapping System (AIMS)
Review results of first system management meeting in February
Continue discussion of the parameters to include as assets in system management

Handouts: Agenda

Notes

Introduction / Update of Implementation Status / 2nd Meeting Goals

- Andrew of B&V welcomed attendees to the second meeting of the system management sub-committee. He provided a quick update of SMP strategic plan implementation to date.
 - **SMP Strategic Plan Awarded:** The strategic plan has been selected to receive the Management Innovation Award from the KC Chapter of APWA. JC SMP and consultants thanked participants for their involvement in implementing the plan. Updates on implementation status will be given to SMAC. JC SMP asked that city officials continue to keep their councils updated as well.
 - **Strategic Plan Implementation Progress:** The watershed-based organization sub-committee is in the process of drafting the framework for the County watershed-based organizations. The system

management sub-committee is helping to build on that framework by further evaluating the details for stormwater system management. Once the watershed sub-committee finalizes a draft framework, then a pilot watershed organization will begin implementing the structure, goals, and prioritizations prepared by the sub-committees.

- **System Management Sub-Committee 1st Meeting Review:** During the first meeting, participants were separated into two groups and tasked with identifying and ranking the key system management risks for natural and engineered systems. The groups were also asked to identify potential issues in normalizing system management across the County. The two groups identified similar risks and normalization issues. A discussion still needs to continue, though, as to what constitutes the stormwater system so that clear consensus can be formed.
- Consultants then outlined the agenda and goals of the second system management meeting.
 - **System Management Sub-Committee 2nd Meeting Goals:** Jason with JC AIMS prepared a presentation to highlight how data is compiled in AIMS and what data is available across the County. After the presentation, the sub-committee shall review and continue the discussion of the components to include as assets in system management.

Automated Information Mapping System (AIMS) Presentation

- Jason of JC AIMS provided a brief presentation of the AIMS stormwater data.
 - Many people within the County know that JC has data in AIMS, but they may not know how it is put together and what is all available. Essentially, AIMS stormwater inventory consists of two datasets.
 - **Collaborative Utility Exchange (CUE) Dataset:** The CUE dataset was started in 2005 and contains stormwater data from all cities. Inlets and junctions are in one sub dataset. Lines are in another sub dataset. The extent and update status of data varies amongst the cities. For some cities, JC AIMS has direct access to their database and AIMS is able to pull data from there. For other cities, such as some in the northeast region, the data is static in that AIMS received the data in 2010 and has not received updates since. The CUE dataset does converge component attributes to common names, for instance with material type. The process to update AIMS is run every Friday. A change detector is able to note differences from the previous dataset. Spring Hill, De Soto, and Edgerton are direct editors of their data in AIMS. Smaller cities, like Spring Hill, also have an app set up where they can update inspection/cleaning information. There are some data discrepancies where cities share infrastructure along major thoroughfares.
 - **Stormwater Network Dataset:** The second set consists of a stormwater network. Previously, Shawnee needed a traceable network that tied in the natural and engineered components of the stormwater system. JC AIMS was able to tie all of the city data with natural features to build a stormwater network. Over time, the attributes of stormwater components were removed so that the dataset is essentially line work tied together. Jason manually updates this dataset based upon changes detected in the weekly CUE update process. The stormwater network dataset is available to the public with no login required. The dataset provides the ability to trace upstream and downstream water flow, delineate a watershed, and also provides watershed and floodplain administrator info. Of note, the dataset does have some issues in that some false lines had to be included to maintain connectivity. These false lines are traced but are not accurate representations of what is there.
- Consultants then called for any questions regarding the JC AIMS data. Questions and answers are summarized below.
 - **Q: *In regards to inventory and condition assessment, in the future who is going to update the attribute of the condition – county or city?***

A: That is an issue that the sub-committee will need to evaluate. Not only will the sub-committee need to consider the designation of responsible parties, but also there will need to be standardization amongst cities as to how conditions are defined. (Lee, JC SMP)

- Q: ***How difficult would it be for the cities to begin incorporating standard naming conventions for stormwater inventory?***

A: Trying to renumber As-built inventory on a new system could be a substantial undertaking. In addition, some cities are already in the process of a lengthy condition assessment. Overland Park, for instance, is at year 7 of a 12 year condition assessment that will cyclically repeat at the end of year 12. Naming may not be as much of an issue as the scale would be, such as four point, etc. There is value, though, in consistently defining what a “good” asset is.

A: At present there is no “smart” naming for assets, for instance a name does not indicate the difference between a manhole and a junction box. AIMS does have tables with further attribute information such as line and point assets along with length of material and structure type. (Jason, JC AIMS)

- Q: ***The AIMS dataset that includes the natural system does not have the component attributes. Does it have to be that way?***

A: Not necessarily, but the dataset would not be able to have the traceability of the network. (Jason, JC AIMS)

Discussion of the Parameters to Include as Assets in System Management

- Triveece Penelton of Vireo asked attendees to continue the discussion of potential parameters to include as part of the stormwater system. During the discussion from the previous meeting, the sub-committee had a fair amount of consensus on the engineered system but further consideration should be given to identifying what natural elements to include. Consultants asked participants to consider all applicable assets that would need to be inventoried and assessed in defining the stormwater system. The following parameters were noted along with key comments:
 - **Natural System** (continued from 02-17-2017 meeting)
 - Detention Basins
 - Participants agreed that private and public detention basins should be included.
 - Including private assets would be necessary from a hydraulic and water quality perspective. Private assets, however, have additional concerns regarding funding and ownership.
 - To reduce concerns about using public funds on private assets, there could be prioritization of funding with public before private.
 - Wetlands and BMPs
 - Participants agreed that wetlands and BMPs should be included in the stormwater system and inventoried.
 - How to define the condition of wetlands and BMPs should be clearly noted though.
 - By including these assets, cities may also be taking on responsibilities that they may not want to do, such as monitoring BMPs beyond MS4 requirements.
 - Riparian areas
 - Participants considered whether to include riparian areas and the extent of such inclusion. Consensus, however, on the inclusion of riparian areas was not clearly indicated yet. (See 04-26-2017 meeting notes for continuation of riparian discussion)
 - **Engineered System**
 - Pipes
 - Participants agreed that public and private pipes should be included.

- The stormwater survey should start at the uppermost inlet (not necessarily the constructed inlet, but where water enters the system) and then the downstream pipe should be inventoried regardless of size.

Closing / Next Steps

- The meeting finished with the closing of the discussion on what assets to include in system management.
- The sub-committee will meet again on April 26th at the same time, same place.
 - The third meeting will blend discussions of “what” should be included in system management to a discussion of “how” system management may best be achieved.
- Lee of JC SMP closed with one final comment regarding concerns of using public dollars on private property. There is a long standing example of a federal entity, NRCS, using public dollars on private property. The NRCS does have a program where they fund the installation of BMPs, etc., on private property with the contingency of maintenance requirements. The SMP program and cities can only do so much with what the public owns. The overall goal of the updated strategic plan implementation is to really look at where the problem is and promote effective change.
- Participants requested a summary of the meeting to share with city and county staff. Meeting materials for all sub-committees can be found at the JC website for the [2016 Strategic Plan](#).