

Marin General Services Authority
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MEMORANDUM

DATE: September 11, 2014
TO: MGSA Board of Directors
FROM: Paul Berlant, Executive Officer and Wayne Bush, Program Director
SUBJECT: AGENDA ITEM C: MarinMap: Program Update

Recommendation

Receive this update regarding the MarinMap program. No action is requested.

Status of MarinMap Programs and Projects

Outreach SASM- Mr. Bush been working with Nute Engineering, who furnishes engineering services for several of the SASM member agencies. They are in the process of migrating their sewer data to the MarinMap server to eliminate redundant and possibly outdated datasets on multiple machines and servers, and ensure remote access by all member agency personnel through MarinMap's mobile applications.

Outreach Ross Valley Sanitary District - RVSD has officially joined MarinMap by executing the JEPA and paying dues, and their engineering and/or maintenance staff have begun attending Executive Subcommittee meetings. They are very interested in MarinMap's built in ability to share data with the public, and Mr. Bush is working with them on hosting their sewer data.

Outreach Las Gallinas Valley Sanitary District- Mr. Bush made contact with the LGVSD Board regarding possible membership. They agreed to meet and discuss joining MarinMap. Given LGVSD's service area and budget, it would appear they would fall into the medium size agency dues schedule, which is \$9000/year.

Outreach Independent Fire Districts- There is no news since the last report at which time they were working on their MOA for joining MarinMap.

Sewer Standards Project- Given the above work with SASM and new sewer agency member, MarinMap is moving forward on the development of baseline standards for data hosting and posting, much like what has been done for the stormwater dataset. This project is expected to be completed in the next month or so. The budget for the project is \$5000.

Road Layer Syncing to Community Base Map Project- As the road layer is used for most map displays and needs to be integrated into the cartographically elegant Community Base Map (which is more of an image than a dataset), the two locations showing roads must be identical.

Achieving this objective took some tweaking to make the changes to the Base Map. This project is complete.

Ortho 4 Project- SFEI reported that image acquisition has been completed and a pilot area is to have been delivered. A link can be found here to the project, including status reports:

<http://www.sfei.org/content/san-francisco-bay-area-digital-orthoimagery-collection>. MMWD has executed the MOU and is onboard for an \$8000 contribution, reducing originally estimated costs for the rest of the members by roughly 20-30%. Delivery is scheduled for late October.

National Hydrographic Dataset Project (NHD) - A major stream and storm water infrastructure update project known as the National Hydrography Database update has been underway for several years. Using local storm water data, orthophotos, high-resolution digital elevation model and Google Streetview, staff has digitized “hydro-enforcement” features into a three-dimensional model for Marin’s topography to direct water flow as realistically as possible over land and within storm water infrastructure. The hydro-enforcement feature digitizing is nearly complete, with only portions of Novato and north Marin still to be done. After digitizing hydro-enforcement lines, staff runs ESRI’s ArcHydro software to generate “flow lines” – a set of attributed features that model where water flows. A subset of flow lines in streams is included. An updated set of flow lines are being generated for all westerly-facing watersheds. That portion of the county is expected to be delivered for review shortly.

FEMA Letter of Map Change Project- This project adds value to the FEMA maps by showing where changes have been approved. An application has been developed to facilitate changes and is complete.

GIS Application Conversion to REST Technology Project- MarinMap’s applications were built on Microsoft’s web ADF technology, which is being abandoned. REST is the next generation standard. The \$20,000 project was completed at a cost of around \$6000.

Website- the website has been redesigned, although we expect this is a work in progress that will go through several iterations. Staff would appreciate comments from all, especially those not intimately familiar with the technical side of things.

Service Level Agreements- Each member of MarinMap contributes data. Consequently, ownership and responsibilities for data are varied, despite the seamless appearance. For example, each city and the County are responsible for street names and property addresses and accuracy is critical for a myriad of uses by all members, including first response. Years ago MarinMap initiated agreements with many agencies to designate the owned datasets and contact person. This information has grown outdated due to turnover. Staff is attempting to circulate simple agreements with each data owner to indicate who to contact when errors need to be reported, currency of the data, and other housekeeping needs.