

Client Newsletter**J&A / Port of Monroe Join Green Marine Program**

Johnson & Anderson, Inc. has been providing consulting engineering services to the Port of Monroe for nearly 50 years. The Port of Monroe, located in the City of Monroe, is Michigan's only port on Lake Erie. The Port embraces its responsibility for environmental stewardship as demonstrated by a recently completed project to dredge and dispose of contaminated sediments from the River Raisin, and its involvement in the transport of synthetic gypsum, a beneficial use by-product, to agricultural and construction material markets. The Port became a Green Marine 'Member-Participant' earlier this year and J&A became an official 'Partner-Participant' this past October.

The Green Marine Program is a voluntary environmental certification Program for the North American marine industry. It is a transparent and inclusive initiative that addresses key environmental issues through its performance indicators: Aquatic invasive species; Community impacts; Dry bulk handling and storage; Environmental leadership; Garbage management; Greenhouse gas emissions; Oily water; Pollutant air emissions (nitrogen oxides); Pollutant air emissions (sulfur oxides, greenhouse gases, and particulate matter); Prevention of spills and leakages; Underwater noise; and Waste management. Green Marine requires participants to adopt practices and technologies that will have a direct impact on the ground.

Participants are comprised of: ship owners, ports, terminals, Seaway corporations, and shipyards. Partners are suppliers of services, products, technology, and/or equipment that offer environmental advantages to help Green Marine participants improve their environmental performance. To receive their certification, participants must benchmark their annual environmental performance through the program's exhaustive self-evaluation guides, have their results verified by an accredited external verifier, and agree to publication of their individual results.

J&A is proud to be part of this environmental initiative with the Port of Monroe and to provide input and assistance for this important endeavor. For questions about this program, please contact John Emig, Jr., P.E. at: (248) 681-7800; Jemig@ja-engr.com

SEMCOG Announces \$5 Million Available For TAP Projects

SEMCOG is now accepting applications for projects for the Fiscal Year 2019 Transportation Alternatives Program (TAP). There is \$5 million available for eligible projects, such as pedestrian and bicycle facilities, including shared-use paths and safe-routes for non-drivers; streetscape improvements; transportation-related environmental mitigation activities; historic preservation projects; and projects to encourage K-8 students to walk or bike to school.

Applications for TAP are due March 7, 2018. Eligible projects will be evaluated by SEMCOG's Regional Clearinghouse Review Committee with award announcements made in early June.

For assistance with your project application, or for additional information, please contact Ryan Whiteherse at: (248) 681-7800, rwhiteherse@ja-engr.com.

Client Newsletter**Genesee County Drain Commissioner Water & Waste Services GIS & Database Services**

J&A was recently awarded a contract with the Genesee County Drain Commissioner Water & Waste Services (GCDC-WWS) to provide GIS and database services. These services include:

- Integration of water meter and billing REU data for hydraulic sewer modeling;
- Integration of sewer flow metering data into the geodatabase sewer and hydraulic model;
- Integration of sewer CCTV inspection and condition data into the GIS database for review and retrieval by staff;
- Writing specifications to outline data and format requirements for third party contractors performing CCTV inspection and rating work under NASSCO standards to streamline the integration of data into the GIS geodatabase;
- Review of Cityworks current customer service and work order template structure to streamline use and to incorporate enhancements based on feedback from staff; and
- Review of current Cityworks mobile technology methodology and to implement improvements to streamline use whether users have a live connection to the central application or not.

Tasks also reviewed as part of this project include: security, data entry, and QA/QC review by the Supervisor to close the work order, creation, and closing of work orders.

As part of this effort, J&A will integrate over 200 CCTV inspection and pipeline scoring projects into the County's ESRI geodatabase for quick retrieval and analysis using our data incorporation and query tool. J&A has developed a powerful and cost effective application using ESRI's ModelBuilder tool, which is part of ArcMap, resulting in no additional software costs. The application facilitates the incorporation of CCTV inspection records and video from PACP and NASSCO scoring databases. In addition to this, the estimated and actual rehabilitation cost information for a pipe can be directly incorporated into the ESRI GIS geodatabase.

The application also includes basic navigation tools for easy viewing and analysis in GIS as well as the capability to snap sewer leads to their PACP inspection data coordinates. Our solution leverages their investment in the ESRI geodatabase while also providing a cost effective viewing and analysis capability using their existing ESRI licenses without having to buy additional software licenses and additional development costs.

For more information on this initiative and how we can assist you, please contact Terry Biederman, P.E. at: (248) 681-7800; tbiederman@ja-engr.com.



Analysis of pipe defects and laterals form data integration within GIS

Client Newsletter

Our Solutions to Your FOG Problems

Fats, oil, and grease (FOG) have become a serious problem for communities and county agencies across Michigan and the United States. FOG buildup in sanitary sewer pipes have resulted in:

- sewer overflows;
- environmental pollution;
- Increased system maintenance and inspection costs;
- Exposing these agencies to potential litigation; and
- Costing millions of dollars in sewer repairs.

J&A has been providing solutions to these problems for our clients by: developing educational materials for residents and businesses; reviewing existing ordinances and standards for FOG prevention; integrating commercial kitchen property parcel, contact information, and inspection form templates into GIS and Cityworks; and implementing an inspection program to help prevent FOG from entering the system. We also review existing program budgets and methods for recommendations on better efficiencies and cost effective alternatives.

For more information on these services and how J&A can assist, please contact Laura Gruzowski, Environmental Analyst, at: (248) 681-7800; lgruzowski@ja-engr.com.



Meet Our Newest J&A Team Member



Jason Sutton, P.E., is a Senior Project Manager with over 30 years of experience in the civil engineering field. He specializes in site design for residential, commercial, and industrial development, project management, client development and sales, and business management. Jason is a registered professional engineer in Michigan and has a Bachelor of Science in Mechanical Engineering from Lawrence Technological University.

He has extensive experience in residential, commercial, and industrial site plan/construction plan development including roadway, earthwork balance, force main, water main, sewer design as well as construction inspection/staking and surveying. He also has completed large scale watershed modeling, floodplain/floodway mediation projects, and water

system modeling.

We are very excited to have Jason on our team.

Contact us today to find out how we can assist you.

Waterford
248.681.7800

Muskegon
231.780.3100

Port Huron
810.987.7820

Flint
810-820-9159