# **LSSE Recent Projects Continued**

**FALL 2020** 



# LSSE News

#### Water System Emergency Preparedness

Under Section 2013 of America's Water Infrastructure Act (AWIA) of 2018 Community Water Systems serving a population greater than 3,300 are required to perform a Risk and Resilience Assessment evaluating threats to vulnerabilities of their system. The Risk and Resilience Assessment generally include assessment of: Natural and non-natural hazards, Chemical Storage/Handling, Operation and Maintenance Practices, Monitoring Practices, Financial Systems and Infrastructure.

The AWIA also requires the development of or an update to the Water System's Emergency Response Plan. Emergency Response Plan's generally includes: Strategies and Resources to Improve Resilience, Plans and Procedures for Responding to Hazards, Actions and Equipment to reduce impact of Hazards, and Strategies to Detect Hazards.

Water Systems serving between 50,000 and 99,999 people are required to submit certification that this Assessment has been completed to U.S. EPA by December 31, 2020. Certifications for Water systems serving 3,301 to 49,999 people are due by June 30, 2021. A Certification of Completion for Emergency Response Plan are required to be submitted no later than six months following Risk and Resilience Certification. Water systems are encouraged to coordinate with any local emergency response plans and emergency planning committees during the preparation of the Risk Assessment and Emergency Response Plan.

There are no standard templates, standards, etc. to complete the Assessment/Plan however US EPA has provided guidance documents and online tools to aide in the completion of the Assessment/Plan. Ultimately the water system is required to self-certify that the Assessment and Plan have been completed in accordance with Section 2013 of the AWIA.

#### Amazon Opening - Chapman Westport / Hillwood Development

LSSE provided civil-site design, surveying, permitting and engineering services for the recently completed 1,033,679 square foot office/warehouse/ distribution center within Parcel A (87.5-acres) of Chapman Westport. In addition, other proposed improvements included private access drives, utilities, stormwater conveyance facilities, 1,000 parking spaces, 90 truck docks, 163 trailer spaces, maintenance facility, and public transit facility.



Work on the project began in 2018 with LSSE preparing conceptual site layout with grading and earthworks. Commencing in 2019 LSSE begin the preparation of site development plans for municipal approval. These plans included grading, drainage and utilities, subdivision plans, landscaping design, street lighting plans; sanitary sewers and waterlines; erosion and sedimentation control plans, stormwater management report; post-construction stormwater management report and over 3,600 LF of roadway design with an integrated walking trail.

For the entire Chapman Westport development, LSSE has designed the Stormwater Management System that included an interconnected system of vegetated swales, rain gardens, forebays, and four stormwater detention facilities which together distribute stormwater throughout the development better replicating predevelopment stormwater discharge characteristics.

LSSE prepared PaDEP Chapter 105, U.S. Department of the Army Corporation of Engineers 404 joint permit to disturb approximate 0.71 acre of wetlands and a dam breach permit to remove an abandoned mine pond on the property.

#### Lennon, Smith, Souleret Engineering, Inc.

LSSE News is published for the benefit of our clients, associates and friends

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## Message from the Managing Principals

The Managing Principals are proud to announce the opening of a new In addition to our western expansion in Franklin County, we are also proud branch office in Dublin. Franklin County. Ohio to serve this growing to announce LSSE's Westmoreland office has added a full-time survey market offering both Civil Engineering and Surveying Services. crew that has integrated with our Coraopolis Headquarters scheduling. The LSSE Erie office has added multiple municipal and private clients In addition to our new branch office in the Columbus area, we are pleased to unveil our new, refreshed logo and letterhead. Undoubtedly, you're strengthening the LSSE presence in northwestern Pennsylvania. familiar with the logo, however as we move forward into our 36th year of Throughout this turbulent year which will not be forgotten, we are certainly proud of our staff in all of our offices that have led service, we wanted to link our history and future; thus providing a sense of brand renewal as we expand into new markets and continue to grow LSSE's efforts in maintaining client satisfaction and continued steady our staff and service profile both geographically and professionally. growth which has become a hallmark of the LSSE Brand. COVID Whether working remote, at a LSSE Branch Office 19 has impacted us all. It has taught LSSE that "Status Quo" Rabell Engineering and Surveys, a Division isn't good enough. It's been a challenge worth meeting in order or as of LSSE. we are all part of the LSSE family. to exceed our clients' needs and expectations while maintaining a resource to provide for the physical needs of our extended, collective families. We remain so proud of our employees and the Rabell Surveying collaborative efforts by all to "Stay the LSSE Course" whether it be in & Engineering an in-office presence or working remotely to the extent practicable. A Division of LSSE In closing we thank our employees, their families and our 10560 Walnut Street, Albion, PA 16401 846 Fourth Avenue, Coraopolis, PA 15108 clients for all everyone has done for LSSE through an (814) 756-4384 . (814) 756-5638 Fax (412) 264-4400 • (412) 264-1200 Fax unbelievable 2020: "we will talk about this one for decades".











Unfortunately, as is common-place during this un-preced time, LSSE's annual Holiday Party has been canceled for 2020 We certainly acknowledge that our employees and clients have enjoyed this annual event and look forward to future festive gatherings. Please mark your calendars for December 3, 2021

### **LSSE Recent Projects**

#### Pine Splash Pad

The Township of Pine with the assistance of LSSE received a grant from the Pennsylvania Department of Conservation and Natural Resources (DCNR) to partially fund the construction of a splash pad and additional restrooms for the Township's Park. LSSE provided survey, engineering, bidding phase and construction survey services for the Pine Park Splash Pad Improvement Project. The project consisted of a 6,600 SF Splash pad with 48 spray features; 1,000 SF Administration building with 4 restrooms and attendant mechanical room. Ancillary site improvements included thirty-nine (39) supplemental parking spaces, 1,000 LF of walking path, expanded stormwater controls and stormwater basin, electrical service upgrades with sanitary sewer lift station to accommodate sewer service.

#### **Online Bidding**

LSSE has moved to an online bidding platform in 2020 on certain projects that are amenable to the application. LSSE has opened several projects as of this writing and several more Category are planned toward the end of 2020. Given the enhanced transition to on-line collaboration attributable to COVID-19, LSSE's migration to an online bidding platform is both timely for our clientele and contracting industry. Online bidding provides real-time information for plan holders, clients, suppliers and the LSSE team. Contractors will be able to easily access documents in a downloadable format. All bids will be submitted online electronically including bid bonds. Our third-party program adds both a time and cost efficiency element in the bidding process by providing a near instantaneous tabulation of bids as they are electronically opened at the appointed date/time. This process inherently reduces the opportunity for common errors made during the bidding process as well provides a more cost and time efficient manner to a navigate the public and private bidding requirements. Common online tele-conference platforms also provide the ability for the bid opening to be conducted "publicly"; but remote.



Sincerely,

Kevin A. Brett, P.E., Ned Mitrovich, P.E. and Jason E. Stanton, P.E.



fall One early morning, customized LSSE and mum "Jack O' Lantern" greeted LSSE employees compliments of Sandy and Tim Keenan.





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## LSSE Recent Projects Continued / Employee News

#### Water System Lead and Copper Rule

The EPA Lead and Copper Rule (LCR) was originally enacted on June 7, 1991 to protect public health and reduce exposure to lead and copper in drinking water. EPA issued revisions to the LCR in 2000 and 2007; additional revisions are presently being considered by EPA and are anticipated to be finalized in the near future because lead contamination of drinking water typically results from the corrosion of the plumbing materials (IE: Lead and Copper lines, brass fixtures, bronze fittings, etc.) EPA established a treatment technique regulation for lead, referred to as the Lead and Copper Rule, that requires water systems to control the corrosivity of drinking water. The treatment technique for lead is 15 parts per billion (ppb). The LCR requires that water systems collect tap samples from a specified number of locations that are likely to have pluming materials containing lead. Although an action level exceedance is not a violation, if more than 10% of the tap water samples exceed the lead action level of 15 ppb, it triggers other requirements including water quality parameter (WQP) monitoring, corrosion control treatment (CCT), source water monitoring/ treatment, public education and lead service line replacement (LSLR).



Proposed revisions to the LCR include the following:

1.) Identifying Areas Most Impacted - Water systems would be required to prepare and update a lead service line (LSL) inventory, and concentrate on individual locations with elevated levels of lead by identifying the cause and mitigating the problem.

2.) Strengthening Treatment Requirements – Revised requirements for CCT would be based upon tap water sampling results. EPA is proposing to establish a new trigger level (TL) of 10 ppb

3.) Replacing Lead Service Lines - Water systems would be required to replace the public portion of a LSL when a customer replaces the private portion of the service line.

4.) Increasing Sampling Reliability - Improved tap sampling procedures are proposed, including requiring the use of wide-mouth bottles for sample collection, prohibiting flushing, and prohibiting cleaning / removing faucet aerators before sampling.

5.) Improving Risk Communication - Water systems would be required to notify customers of an action level exceedance within 24 hours; make the LSL inventory publicly available; and conduct regular outreach to homeowners with LSLs.

6.) Protecting Children in Schools - Community Water Systems (CWS) would be required to sample drinking water at each school and each child care facility served by the system; and provide the results and information about the actions the school or child care facility can take to reduce lead in drinking water.

The most daunting of the revisions proposed above is the requirement for a water system to prepare a construction material inventory of the public portion of their service lines - typically identified from the main

waterline to the curb box. Recently, PaDEP has required a local water system to perform excavations of the public portion of water service lines suspected of being constructed of lead to confirm the material of construction. Only confirmed LSLs were permitted to be included the LCR sampling pool.

LSSE assisted this local water system in identification of potential LSL sites, preparing an inventory using GIS mapping, and regulatory submissions to PaDEP for sample siting plan and LSL inventory submission. Potential LSL sites were screened by year of construction, water authority records, and first-hand knowledge of Authority employees. LSL excavations were performed by soft-dig technology using vacuum excavation at the public side of the curb box. Refer to above photo.

#### Grants and Funding Update

We are pleased to announce recent funding awards (totaling \$4,618,851) to our clients within the last 4 months:

Community Development Block Grant (CDBG): Bridgeville Borough - \$20,000 Grant - ADA Ramps, Coraopolis Water and Sewer Authority \$120,000.00 Grant - Catch Basin Replacement, Coraopolis Borough \$55,000 Grant - Structure Demolitions, Neville Township - \$26,400 Grant - ADA Drinking Fountains, Neville Township -\$266,600 Grant-Nebraska, North Fayette Township - \$24,000 Grant-ADADrinking Fountains, Scott Township - \$20,000 Grant - Pool House Restroom Renovations and Aliquippa Water Authority - \$100,000 Grant - Sutton St

Gaming Economic Development Fund (GEDF): Dormont Borough Stormwater Authority - \$200,000 Grant - Louisiana Avenue Stormwater Improvements, Dormont Borough Stormwater Authority - \$185,000 Grant - Athens Alley Watershed Improvements, Edgeworth Borough - \$50,000 Grant - Creek Drive Stream Restoration, Edgeworth Borough - \$175,000 Grant - Walker Park Stream Restoration, Fox Chapel Borough - \$100,000 Grant - Public Works Garage, Moon Township - \$250,000 Grant - Downes Fire Station Improvements, Ohio Township - \$175,000 Grant - Pollutant Reduction Plan Implementation and O'Hara Township - \$100,000 Grant - Powers Run Pollutant Reduction Plan Implementation

Commonwealth Financing Authority: Avalon Borough - \$75,000 Grant - Gardner Avenue Storm Sewer Improvements, Bridgeville Borough - \$70,000 Grant - Pollutant Reduction Plan Implementation, Castle Shannon Borough - \$45,900 Grant - Killarney Drive Inlet Additions, Castle Shannon Borough - \$300,000 Grant - Connor Road/ South McCully Sewer Repairs, Delmont Borough - \$311,000 Grant - Lift Station and Sewers Wet Weather Improvements - Phase 1, Linesville Municipal Authority (Crawford County) -

Location	Project Description	Funding Source	Grant	ype Losn Amt		
Borough my County	Gardner Avenue Storm Sewer Improvementa	PA Small Water and Sewer Program	\$75,000			2020
	Avaion Community Park	DCNR	\$184,000			2019
	Structure Demolition, Playground	CDBG	\$\$4,000			2019
	Sanitary Sewer Improvements	PA Small Water and Sewer	\$192,043			2018
	Spruce Run Sanitary Sewer	ALCOSAN GROW Grant	\$75,158			2018
Borough	Demolitions and Automatic Door	CDBG	\$67,100		i i	2003-2018
	Pollutant Reduction Plan	PA Small Water and Sewer Process	\$70,000	i	i	2020
ville Borough ny County Shannon gh ny County	Bower Hill Stormwater Improvementa	Gaming Economic Development Fund	\$100,000		İ	2019
	McLaughlin Run Flood Mitigation	Gaming Economic Development Fund	\$425,000		l	2019
	Killamey Drive Inlet Additions	PA Small Water and Sewer Program	\$45,900		i i	2020
	Connor Road/ South McCully Sewer Repairs	PA Small Water and Sewer Program	\$ 300,000			2020
	Rehabilitation of Hamilton Park	PA Department of Conservation and Natural Resources	\$185,000			2018
	Operation and Maintenance Renairs	ALCOSAN GROW Grant	\$307,100	i i	i	2015
	Demolition	CDBG	\$89,300			2011-2018
	Wastewater Facilities Construction	Federal EPA / Allegheny County 3 Rivers Wet Weather	\$137,500	ĺ –	ĺ	1999
Township	Water System Improvements	H2O PA Grant	\$720,000	i	i	2009
Authority	Water System Improvements	Infrastructure Program	\$1,300,000		1	2008
an Properties, vironmental ng & Design, LLC anten Borough nd County	Chapman Commerce Center Reclaimed Scrisce Mine Project (Cent Administration)	RCAP Grant	\$2,000,000			2010-2013
	Phase II of Westport Road	RCAP Grant	\$1,500,000			2018
	Drinking Water Emergency Generators Project	PA Small Water and Sewer Program	\$35,000			2018
	Sewage Facilities Project	H2O PA Grant	\$350,000	i	i	2009
	Sewage Facilities Construction	EPA Special Appropriations	\$500,000			2008
	Sewage Facilities Construction	Safe Water Appropriations	\$200,000			2008
	Sewage Facilities Construction	Dept of Community & Economic Development (Community Revitalization Grant)	\$250,000			2008
	Sewage Facilities Construction	Safe Water Appropriations	\$100,000	İ	i	2007
	Sewage Facilities Construction	EPA Special Appropriations	\$200,000			2007
	Sewage Facilities Construction	PENNVEST	\$1,759,701	\$6,579,862	1% - 30 Yrs	2007
	Sewage Facilities Design	PENNVEST	1	\$526,500	1% - 5 Yrs	2005
	Demolition, Door Openera, ADA Ramps, ADA Pionic Tables	CDBG	\$113,000			2007-2018
Township ny County	Update to Comprehensive Recreation, Park and Open Space Plan	PA Department of Conservation and Natural Resources	\$20,000			2018

\$125,000 Grant – 2020 Water System Improvement Program, Moon Township - \$200,000 Grant – Pollutant Reduction Plan Implementation, Neville Township - \$93,310 Grant – Nebraska Avenue Waterline Replacement, New Sewickley Township - \$230,000 Grant – Green Valley Park Stormwater Improvements, Patterson Township - \$226,128 Grant - Lindsay Drive Storm Sewer Improvements, Pleasant Hills Borough - \$200,000 Grant -American Legion and Rear Temona Drive Sanitary Sewer Relocation and Lining Project, Scott Township - \$338,613 Grant - North Wren Storm Sewer Improvements

PennDOT Multimodal Transportation Fund: White Township - \$400.600 Grant - 12th Avenue Bridge Replacement

ALCOSAN GROW Grant: Avalon Borough - \$72,900 Grant - Sanitary Sewer lining (I/I), Fox Chapel Borough - \$16,300 Grant - Sanitary Sewer lining (I/I), \$33,600 Grant - Sanitary Sewer lining (I/I), \$11,700 Grant - Sanitary Sewer lining (I/I), O'Hara Township - \$52,400 Grant - Sanitary Sewer lining (I/I)

#### LSSE Clerical Unit On Line Collaboration: Connection in a World of Separation



Social distancing recommendations and associated guidelines from the PA Department of Health and

Centers for Disease Control (CDC) as well as tele-working advancements amidst a global pandemic has triggered LSSE to re-think employee "connection" while physically being separated. Embracing the technological advances of on-line communication may have been perhaps the biggest challenge LSSE's Clerical Unit has had to face in today's collaborative business environment. Microsoft Teams has helped the LSSE Clerical Unit communicate in a timely manner, while enabling screen and document sharing. This application has kept the Unit updated and connected with all of the other units while the majority of LSSE's Clerical staff works remotely.



#### **Department of Public Works Cold** Storage Facility in Mowry Park in Pleasant Hills, Pennsylvania

Acknowledging the need for enhanced seasonal storage associated with Department of Public Works snow plows / spreaders during the summer months and park field maintenance equipment in the winter months, the Borough of Pleasant Hills authorized LSSE to provide bidding phase and construction

phase general project services for the Mowry Park Cold Storage facility. The facility also was constructed with dedicated space for the Pleasant Hills

Volunteer Fire Department to house vital first-responder equipment

Re-purposing an under-utilized basketball court in a set aside portion of the park, LSSE was able to retain mature vegetation surrounding the facility to allow it to blend in with the other park amenities.



The scope of work generally consisted of a design/build contract for a new

4,800 square foot pre-engineered steel superstructure to accommodate seasonal storage space needs.

As part of the bidding process, LSSE prepared a unique bid package pitting pre-engineered, insulated steel versus a pre-engineered, insulated wood superstructure to provide a cost-competitive market-driven solution related to storage of essential public service equipment.









#### EMPLOYEE SPOTLIGHT

Commensurate with opening our Dublin. Franklin County Ohio office, LSSE would like to announce Gary M. Baird as Office Manager at our Westmoreland County, PA Office, Garrett G. Brown, P.L.S. as Office Manager at our Franklin County, OH office and Matt L. Swanson, P.L.S. as Office Manager at our Erie County, PA office. In addition, Donald R. Hixson, Jr., P.É., P.L.S. will serve as Regional Manager over all of the LSSE Branch offices.

#### New Hires:

Allegheny County Office (Headquarters):

Carl D Decker, Anna M. Mason, Derek A. Munsch, Vicki C. Lutz, Sean M. Lukacs, Christopher J. Glover, Tyler E. Shelly, Betsy E. Rosnick, and Kurt A. Waldron

Westmoreland County Office (Branch) Jake A. Dykes and Philip D. Beasley

Erie County Office (Branch) Nickolas J. Beier

Franklin County Office (Branch) Joseph S. Zacharzuk and Garrett G. Brown

"Midland Borough's 2020 Roadway Improvement Program, made possible via a Commonwealth Financing Authority, Multi-Modal Transportation Fund grant opportunity was recently spotlighted in the Beaver County Times. Roadway infrastructure improvement focused on Midland Heights Circle, Midland Heights Road and Woodland Avenue in the Borough of Midland."