

BASF WATER SERVICE CONNECTION



LSSE was engaged by BASF Corporation (BASF) to design a Water Service Connection, Fire Protection and Metering Building, and Fire Water Storage Tank to serve their Industrial Facility in Potter Township, Beaver County. BASF currently employs approximately 125,000 people nationwide and is one of North America's largest producers and marketers of Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care, and Agricultural Solutions. BASF presently purchases potable, processing and fire protection water from an adjoining private property owner that has a permitted raw water intake source of supply along the Ohio River. This project will connect the BASF Industrial Facility to the Center Township Water Authority (CTWA) public water system for the provision of Domestic Water Service, Industrial / Manufacturing Water Service and limited Fire Suppression Service.

Following a field review and evaluation of the internal BASF Water Distribution Systems; an alternative analysis and detailed hydraulic model was prepared to evaluate the ability and availability for CTWA to supply water to BASF; and assess the resultant hydraulic impact to the CTWA water distribution, storage facilities and treatment facilities. The CTWA hydraulic model was calibrated using hydrant flow test data and multiple iterations of various pressure-recording devices located at diversified points within the CTWA distribution system.

The project, located in a congested industrial site, included abandoned utilities and building foundations, drainage features, railway encroachments and state highway setbacks. Utilizing the CTWA distribution system hydraulic analysis, a 12-inch water service connection was selected to provide the desired water pressure and flow to the BASF Industrial Facility. Design and permitting elements included 225 linear foot, 24-inch cased waterline installed by jack and bore construction method beneath the CSX Transportation Railway and PennDOT State Route 18 along a busy corridor which also serves the adjacent Shell Chemical Appalachia industrial facility.

To accommodate constructability, a Soldier Pile and Concrete Lagging Wall, including Deep Piling Foundations (Driven H-Piles) was designed to integrate the capacity for maintenance and avoidance of the embankment parameters of the existing stormwater conveyance drainage channel.

The Fire and Metering Building design included Fire Pump, Jockey Pump and Diesel Storage Vessel, Manual and Automated Valves and Appurtenances for the Domestic, Process / Manufacturing and Fire Distribution Lines, Sprinkler Systems, HVAC, and Electrical and Remote Telemetry Equipment for supervisory control provisions.

As part of the Building Elements, Fire Department Connections, Pressure Indicating Valves, and various NFPA Certified tests were accommodated. Fire flow water volumetric requirements were met with a 270,000 gallon Fire Water Storage Tank.

Construction of the BASF Water Service Connection project is anticipated to be completed this Fall.





Managing Principals
Kevin A. Brett, P.E.
Ned Mitrovich, P.E.
Jason E. Stanton, P.E.

Principals
John R. Heyl, P.E., CPESC
Lawrence J. Lennon, Jr., P.E.
Shawn R. Wingrove, P.E.

Offices

Headquarters
Coraopolis, Allegheny County, PA

Branch Offices
Allegheny County, PA | Armstrong County, PA |
Beaver County, PA | Erie County, PA | Franklin County, OH
Washington County, PA | Westmoreland County, PA

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



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LSSE MANAGING PRINCIPAL AND CEO, NED MITROVICH, P.E., NAMED BEAVER COUNTY ENGINEER OF THE YEAR



Skip Homan, P.E. and Ned Mitrovich, P.E.



Ned giving his acceptance speech

LSSE is excited to share that Ned Mitrovich, P.E., Managing Principal, received the honor of being named the 2023 Beaver County Engineer of the Year by the Beaver County Chapter of the Pennsylvania Society of Professional Engineers (PSPE). This event was held on August 16, 2024 at the Seven Oaks Country Club in Beaver County. This prestigious recognition was celebrated at the annual Engineer of the Year dinner, highlighting Ned's exceptional contributions to LSSE's clients for nearly 30 years.

Since the inception of this award in 1953, who named the remarkable Michael Baker, Jr., as its first recipient, it has been a symbol of excellence in the world of engineering. Ned being selected for this award adds him to a distinguished lineage of professionals who have significantly impacted our community and beyond.

LSSE takes immense pride in Ned's achievements and is privileged to have the opportunity to collaborate with such a talented and respected engineer.

Please join LSSE in congratulating Ned on this remarkable and well-deserved milestone!



Beaver County's 2024 Annual Engineer of the Year Dinner at Seven Oaks Country Club



Managing Principals, Jason E. Stanton, P.E. and Kevin A. Brett, P.E., congratulating Ned on his achievement



The LSSE family showing their support as Ned received this honor

EMPLOYEE SPOTLIGHT

NEW HIRES:

Allegheny County Office (Headquarters):
Tyler Franks, Haley Felton, Ryan Musto, Alex Corapi, Ashley Harris, Robert Franz and Carrie Kuhn

Franklin County Office (Branch):
Josh McGurer, Jen Schneller, RLA and Brian Montgomery, E.I.T.

Westmoreland County Office (Branch):
Sierra Flanders and Mark Flecker

Allgheny County - Harmar Office (Branch):

Cathy Anderson, Jeff Burlett, Austin Kepes, Monica Langan, Beth Jordan, Thane Vickers, Amelia Huet, Liam Deasy, Benjamin Reynolds and Landon Banks



WELCOME NEW CLIENTS!

Township of Winfield
Harmony Township Municipal Authority
Sutersville-Sewickley Municipal Sewage Authority (SSMSA)
Oakdale Borough

LSSE's Newly Weds

CONGRATULATIONS TO THE NEWLYWEDS...

John Valinsky got married on June 8, 2024
Kelly Sokol got married on September 5, 2024

We wish you all the best!



GRANTS AND FUNDING UPDATE

We are pleased to announce recent funding awards totaling **\$10,649,185** to our clients:

- **Multimodal Transportation Program - \$3,074,540.00**
- **LSA Category 4 Program - \$59,270.00**
- **FY2025 Community Project Funding - \$7,400,000.00**
- **Community Development Block Grant (CDBG) - \$115,375.00**

Please feel free to contact Drew Null, P.E. (dnull@lsse.com); Josh Callender, E.I.T. (jcallender@lsse.com); Matthew Pitsch, P.E., C.B.I. (mpitsch@lsse.com) with any questions or for additional information.



MIAMI SURVEY PROJECT

In April 2024, LSSE was contracted by ASCENT Consulting & Engineering to perform a boundary, topographic and utility survey in Miami-Dade County, Florida for a proposed government training facility. Despite the challenges posed by the subtropical and swampy terrain of the Everglades environment (crocodiles, snakes, mosquitoes, etc.), the LSSE team was still able to work efficiently and effectively to provide LSSE standard quality of work. The team consisted of:



- **Brad Goodballet, P.S. / P.L.S.**
Albion Branch Office / Dublin Branch Office
- Brad is a Professional Land Surveyor registered in Florida. He supervised and reviewed the field and office survey work.
- **Mike Vadas, P.L.S.**
Greensburg Branch Office
- Mike assisted with the courthouse research, deed plotting, survey calculations and drawing preparation.
- **Jason Presutti / Ryan Anthony / Alan Wiltfeuer**
Coraopolis (LSSE Headquarters)
- Jason and Ryan served as the GPS field survey crew while Alan acted as the drone pilot. All three of them worked together to perform the necessary field work.

SCOTT TOWNSHIP SPLASH PAD



Scott Township Splash Pad

Construction of the Scott Township Splash Pad was completed in May 2024. Located adjacent to the existing pool facilities within Scott Park, Scott Township's new 4,500 sf Splash Pad includes over 30 water features and offers additional recreational space for the area's youth and families.

Accompanying installation of the Splash Pad, a new Restroom and Mechanical Building were also constructed as a part of the Scott Township Splash Pad project.

The Splash Pad package and installation, as well as the Restroom and Mechanical Building materials package, were purchased by the Township through the Commonwealth of Pennsylvania Cooperative Purchasing Program (COSTARS), and supplied by Vortex Aquatic Structures International and ROMTEC, Inc. respectively. In 2022, the Township received a \$100,000.00 Gaming Economic Development Tourism Funding (GEDTF) grant through the Redevelopment Authority of Allegheny County (RAAC) for the purchase of the Splash Pad Restroom.

The Scott Township Splash Pad project was complex; involved several contracts; and required significant coordination and timing.

Site preparation, general construction, plumbing construction and electrical construction contracts were publicly bid and awarded for both the completion of preparatory site work and the construction of the Splash Pad Restroom and Mechanical Building.

Also completed under the scope of the Scott Township Splash Pad project were:

- Installation of site irrigation system;
- New pool fill water supply line;
- Site lighting; concrete sidewalks;
- Fencing;
- Storm sewers and stormwater management facilities;

- Sanitary sewers;
- Water distribution facilities; and
- Restroom and Mechanical Building electrical services.

Concurrent with construction of the new Splash Pad facilities, the Township also completed improvements upon several of Scott Park's athletic court facilities, including the addition of four (4) new pickleball courts and resurfacing of one (1) basketball court.

In June 2024, Scott Township held a ribbon cutting ceremony to celebrate the opening of Scott Park's newest amenities. LSSE was pleased to assist in the design, bidding and construction phase services of both the Scott Township Splash Pad project and Scott Courts Improvements project.



Resurfaced Basketball Court



New Pickleball Court

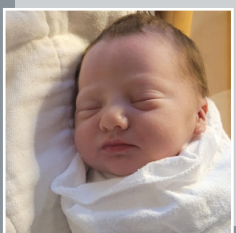
LSSE's NEWBORNS

LSSE would like to congratulate...

Josh R. Callender and his wife welcomed their son, Jude Robert Callender, on April 23, 2024, weighing 7 lbs. 13 oz and measuring 20.5 in.



Sean H. Dougherty and his wife welcomed their son, Jameson Hilton Dougherty, on June 15, 2024, weighing 7 lbs. 10.8 oz and measuring 20 in.



John R. Wright, III, and his wife welcomed their son, Gavin Denver Wright, on October 15, 2024, weighing 6 lbs. 9 oz and measuring 20 in.

CONGRATULATIONS ON YOUR LITTLE ONES!

31st ANNUAL NAIOP PITTSBURGH AWARDS BANQUET

LSSE is pleased to announce that our Client, NorthPoint Development, won the award for Best Speculative Industrial Building for their project, Westport Ridge Building 1, at the Pittsburgh Awards Banquet on May 9, 2024.



2024 ANNUAL COMPANY PICNIC



LSSE's Civil Site / Municipal Team Winning the Annual Softball Game at the company picnic on August 2, 2024



2024 LSSE Company Photo