



WILLIAM SHANE

MANAGING CONSULTANT

CREDENTIALS

- ◆ *B.S. Civil Engineering, University of Kentucky, 2004*
- ◆ *M.S. Environmental Engineering, University of Cincinnati, 2008*
- ◆ *Registered Professional Engineer (PE):*
 - *Kentucky #29490; Alabama #39305; Indiana #PE12200114; Ohio #PE.87584; Florida #101731*

PROFESSIONAL EXPERIENCE

- ◆ *2020 – Present: ALL4 LLC, Lexington, KY – Managing Consultant*
- ◆ *2013-2020: Smith Management Group, Lexington, KY – Environmental Engineer*
- ◆ *2008 – 2013: Kentucky Division of Water (KDOW), Frankfort, KY – Environmental Engineering Assistant III*

TECHNICAL EXPERTISE

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| ✓ <i>Prepare Clean Air Act (CAA) permit applications and Potential to Emit (PTE) emissions calculations for Title V, Synthetic Minor, Conditional Major, and Minor Sources subject to Standards of Performance for New Stationary Sources (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP);</i> | ✓ <i>Multimedia audits of industrial facilities and operations</i> |
| ✓ <i>Prepare Clean Water Act (CWA) National Pollutant Discharge Elimination System (NPDES) wastewater discharge permit applications for industrial facilities;</i> | ✓ <i>Emergency Planning and Community Right-to-Know Act (EPCRA) Tier II and Toxics Release Inventory (TRI) reporting;</i> |
| ✓ <i>(RCRA) hazardous waste generator permitting and reporting;</i> | ✓ <i>Develop environmental compliance plans including Spill Prevention Control and Countermeasure (SPCC) Plans and Stormwater Pollution Prevention (SWPPP/SWP3) Plans;</i> |
| ✓ <i>RCRA hazardous waste Part B permitting;</i> | ✓ <i>Phase I and Phase II Environmental Site Assessments (ESA); and</i> |
| | ✓ <i>Onsite extension support serving as member of industrial client's environmental staff.</i> |

PROFESSIONAL OVERVIEW

William Shane is a Civil and Environmental Engineer with over 16 years of Consulting and Regulatory experience. William's experience includes CAA permitting and reporting; CWA NPDES wastewater discharge permitting and reporting; RCRA Hazardous Waste permitting and reporting; multimedia auditing; EPCRA reporting; development of environmental compliance plans; Phase I and Phase II ESA; litigation support; and onsite extension support. William has extensive experience working with both existing and greenfield facilities in a wide range of industries.

Prior to his work in consulting, William spent five years at KDOW as a NPDES permit writer developing permits for industrial facilities, publicly owned treatment works, and sanitary discharges. While at KDOW, William performed state-wide inspections and audits of municipal pretreatment programs.

William is a licensed PE in Kentucky, Alabama, Indiana, Ohio, and Florida.



MULTI-MEDIA ENVIRONMENTAL PERMITTING EXPERIENCE

Greenfield Automotive Parts Supplier, Huntsville, AL: *Worked with a design-build firm and the client to address environmental permitting needs for a greenfield automotive parts supplier. The deliverables developed for the project included an initial minor source air permit application package, industrial user wastewater discharge permit application package, Spill Prevention Control and Countermeasures (SPCC) Plan, and a Best Management Practices (BMP) Plan.*

Existing Hazardous Waste Treatment, Storage and Disposal Facility, Calvert City, KY: *Prepared initial minor source air permit application package for an existing Treatment, Storage and Disposal Facility (TSDF) that was classified as a registered source. Air quality modeling for new equipment showed that emissions would exceed U.S. EPA regional screening levels (RSL) without control. Because the cited regulation was not part of the state implementation plan (SIP), the regulatory agency agreed to issue a minor source permit with an enforceable condition to install and operate control equipment. The deliverables developed for the project consisted of a narrative discussion of the source, agency forms, potential-to-emit (PTE) calculations, permit shield, and modeling to demonstrate compliance with applicable RSL.*

New Brewery, Hillside, NJ: *Worked with a design-build firm and the client to address air quality permitting needs for a new brewery constructed in an existing building. The deliverables developed for the project included an air quality minor source permit application package with narrative discussion of the proposed source, agency forms, PTE calculations, state of the art (SOTA) evaluation for control of volatile organic compounds (VOC), and a general permit application for natural gas fired boilers.*

Greenfield Distillery, Lebanon, KY: *Worked with the client to address environmental permitting needs for a greenfield distillery. The deliverables developed for the project included a Phase I Environmental Site Assessment (ESA), initial minor source air quality permit application package, lead and asbestos evaluation for existing residential structures on the property, SPCC Plan, industrial stormwater general permit application, Stormwater Pollution Prevention Plan (SWPPP), and wastewater laboratory certification application.*

Existing Chemical Production Facility, Calvert City, KY: *Prepared National Pollutant Discharge Elimination System (NPDES) renewal application for an existing chemical production facility subject to Organic Chemicals, Plastics and Synthetic Fibers (OCPSF) effluent guidelines. The deliverables developed for this project included a narrative discussion of the facility and operations, requests for a regulatory mixing zone and reduction in frequency of monitoring, agency forms, and a regulatory analysis of compliance with the 316(b) rule for cooling water intake structures.*

Existing Hazardous Waste TSDF, Fernley, NV: *Worked with the client to address environmental permitting needs for an existing TSDF that proposed to add new hazardous waste processing equipment and operations. The deliverables included a Class II air permit modification application package with a narrative discussion of the source, agency forms, PTE calculations, permit shield, and modeling to demonstrate compliance with applicable RSL. The deliverables also included a Resource Conservation and Recovery Act (RCRA) modification application package with a narrative discussion of the facility and operations, Part B application forms, facility maps and diagrams, and Certificate of Designation application package per Nevada Administrative Code (NAC) 444.8458.*



TRAINING WORKSHOPS

EPA Water Quality Standards Academy (WQSA): *Week-long course covering all aspects of the water quality standards regulations, including the technical, scientific, administrative, and procedural aspects.*

Voluntary Pretreatment Certification Levels 1 and 2: *This course instructs pretreatment personnel on how to perform pretreatment activities in a manner that is consistent with federal and state pretreatment requirements. The program includes technical training classes and a certification exam.*

PUBLICATIONS/ PRESENTATIONS

- Intro to Kentucky Division for Air Quality (KDAQ) Emissions Inventory Survey (EIS) - Internal ALL4 training covering use of the KDAQ EIS system, March 2024
- Water 101 Session 2 - NPDES Wastewater - Internal ALL4 training covering regulatory applicability, permit applications, Permit Writer's Manual, effluent limitation guidelines (ELGs), publicly owned treatment works (POTW) and pre-treatment permitting, permit modifications, and regulatory timeframes, April 2023
- Required Annual Public Reports in Kentucky - Air and Waste Management Environmental Practitioners' Workshop, November 2018
- Is It as Simple as It Looks? A Look at KPDES Permitting - 20th Annual Kentucky Environmental Permitting and Reporting Conference, August 2017
- Before You Break Ground: How to Address Endangered Species, Wetlands, and Stormwater Pollution Prevention Plans - 18th Annual Kentucky Environmental Permitting and Reporting Conference, August 2015
- Why Should I Care About Water Quality Standards? - Eastern Unconventional Oil and Gas Symposium, November 2014
- Potential Impacts of Kentucky's Nutrient Strategy - 17th Annual Kentucky Environmental Permitting and Reporting Conference, August 2014

EXPERT WITNESS TESTIMONY

- 2023, Louisville-Jefferson County Metro Government Board of Zoning Adjustment (BOZA) - Expert testimony regarding a variance request to allow a proposed structure to exceed the maximum height in EZ-1 zoning district. Case No. 22-VARIANCE-0173
- 2012, Dr. Christopher Steward vs. Energy and Environment Cabinet and Park City Stone, LLC - Expert testimony concerning development of permit conditions and limitations for Kentucky No Discharge Operational Permit No. 009105942. Kentucky Office of Administrative Hearings File No. NCP-4367