

# NOISE & AIR QUALITY ANALYSES



Burton Planning Services

Burton Planning Services is exceptionally qualified to conduct a wide-range of noise and air quality studies for a variety of state and federal entities.



## WHEN DO YOU NEED A NOISE STUDY?

A noise analysis is required by Federal and State regulations if a project consists of a new highway being built, or an existing highway that is being significantly altered. Other reasons for pursuing a noise analysis would be an increase in the number of traffic lanes or the elimination of a landscape feature that previously served to protect noise sensitive land uses, such as homes, churches, schools, hospitals, and libraries. A noise analysis will consider noise sensitive land uses within 500' from the proposed project.



## WHEN DO YOU NEED AN AIR QUALITY STUDY?

The Clean Air Act requires National Air Quality Standards for common air pollutants. Because of this, each state is required to develop a State Implementation Plan. Federal actions, such as roadway projects, must conform to air quality goals listed in their state's plan. Any project of substantial size must be analyzed for their air quality impact, and a Mobile Source Air Toxic Analysis is required when a roadway project adds capacity or a new interchange, relocates lanes closer to sensitive areas, or expands an intermodal center resulting in an average daily traffic less than 140,000 vehicles in the design year.



## WHO WE ARE

BPS was formed in 2008 by company President, Kimberly Burton, and is based out of Westerville, Ohio. Our mission is to provide clients with sustainable solutions that are timely, affordable, and customized for the client's specific needs. BPS has 10 professional staff, including planners, development experts, engineers, and environmental specialists. We value being a small business because it enables us to be more flexible and adaptable for our clients. We operate without a large overhead, so we can offer lower-cost services; and we do not have intermediary sales people – our professional staff work directly with our clients from start to finish.



## WHAT WE DO

Our firm is committed to being accessible to our clients and providing a range of environmental solutions in-line with their vision. Our in-house environmental specialists have developed extensive expertise in the noise and air quality disciplines. We offer a full range of skillsets to conduct a wide variety of noise and air quality activities, analyses, and research.



## OUR APPROACH

- ★ **Field Work:** BPS utilizes the latest noise meters and technology and follows national/state guidance to collect the most accurate field data.
- ★ **Modeling:** We create detailed models that meet or exceed industry standards to ensure accurate predictions.
- ★ **Analysis:** BPS provides clear, concise data analyses that can be easily understood and utilized.
- ★ **Public Engagement:** BPS is skilled at communicating with the public and gaining the needed feedback for barrier selection and design.
- ★ **Evaluation & Reporting:** We stay up-to-date on federal noise and air quality guidelines and best practices to ensure requirements are met.

# MEET OUR NOISE & AIR QUALITY ANALYSIS EXPERTS



## The BPS Small Business Advantage



Flexibility



Timeliness



Expertise



Commitment



Relationship



Cost Effectiveness

## NOISE & AIR QUALITY CAPABILITIES

For over 10 years, BPS has been conducting traffic noise and air quality studies; BPS staff have a combined 60+ years of noise and air quality experience:

- Policy & Program Management Assistance
- Type 1 Noise Analyses & Barrier Abatement Design
- Type 2 Noise Analyses & Barrier Abatement Design
- Noise Barrier Public Involvement
- Traffic Noise Research
- Existing Noise Barrier Evaluations
- Noise Barrier Aesthetics
- TNM Noise Software Training
- Air Quality Conformity & Hot-Spot Analyses for CO, O<sub>3</sub>, PM<sub>2.5</sub> & MSAT
- Expert Witness Testimony

## CERTIFICATIONS & AFFILIATIONS

- Ohio DOT Noise Analyses & Abatement Design Prequalification
- Ohio DOT Air Quality Analyses Prequalification
- TRB ADC40 Traffic Noise & Vibration Committee “Friends”
- Certified as Noise Expert Witnesses



### Kimberly Burton, P.E. AICP, CTP, LEED AP ND | *President*

Ms. Burton is the President of BPS and has over 20 years of experience working in the public, private, and academic sectors. She is a professional engineer, certified planner with a transportation planning specialty, and LEED accredited professional in neighborhood development. She has a Bachelor's of Science in Civil Engineering (1999) and a Masters in City and Regional Planning (2002), both from the Ohio State University. She is an Associate Professor of Practice in City & Regional Planning at The Ohio State University where she focuses on transportation, energy, green building, sustainability, resiliency, and future cities.

Ms. Burton has been involved in the traffic noise field for her entire career. She first started as a Noise Specialist with the Ohio Department of Transportation and then as an Engineer/Planner completing noise studies for several consultants, including noise field readings, noise analyses, noise barrier analyses, noise research, noise-specific public involvement, and traffic noise expert witness testimony. To-date, she has completed over 50 noise-related studies; served as one of the original beta testers and ODOT trainers for the current traffic noise software, TNM; is certified as a traffic noise expert witness; and holds seven ODOT prequalifications, including Noise Analyses & Abatement Design. Ms. Burton has conducted several noise research projects, co-authored noise-related publications, and presented on noise-related topics.



### Elvin Pinckney | *Snr Env. Specialist & Traffic Noise Expert*

Mr. Pinckney is a Senior Environmental Specialist with over 40 years of experience in the public and private sectors. He previously served as the Program Manager of ODOT's Noise & Air Quality Program, and he is a nationally-recognized noise and air quality professional. During his time at ODOT, he was involved in every major traffic noise

study and noise barrier constructed in Ohio for over 3 decades. In addition, he provided technical and policy assistance to federal and state departments of transportation, legislators, researchers, other governmental agencies, consultants, and the public; and he authored the original ODOT noise policy and subsequent updates. Since joining BPS in 2010, Mr. Pinckney has gained additional experience in safety studies, traffic counts, existing conditions evaluations, speed and delay studies, public involvement activities, and ecological fieldwork. He is ODOT Prequalified in Noise Analyses & Abatement Design, as well as Air Quality Analyses.