



Entech Noise & Vibration Services

Minimizing Impacts and Demonstrating Compliance

Entech Consulting Group provides specialized noise and vibration assessment services, helping clients in transit, transportation, land development, and water projects manage environmental impacts. We support regulatory compliance, project design, and community relations by addressing potential noise and vibration concerns.

Entech delivers critical environmental analysis and planning support to assist our clients in:

- Minimizing noise and vibration impacts on sensitive receptors and surrounding communities.
- Demonstrating compliance with federal, state, and local noise and vibration regulations and ordinances.
- Supporting project permitting, design decisions, and environmental documentation.

Our Noise & Vibration Services

We offer a comprehensive suite of noise and vibration services tailored to various project phases, from initial planning and design to construction and operation.



Noise Modeling & Analysis

- **Transportation and Transit Noise Assessments:** Comprehensive analysis of noise and vibration impacts from transportation and transit projects.
- **Traffic Noise Modeling:** Utilizing models such as FHWA Traffic Noise Model (TNM 2.5) for evaluating roadway noise impacts, and the FHWA 108 Model for evaluating traffic noise impacts.
- **Construction Noise Analysis:** Performing construction noise analysis using models like RCNM (Roadway Construction Noise Model).
- **Vibration Modeling:** Predicting ground-borne vibration levels from construction (e.g., piling, blasting) and operational activities (e.g., transit lines, heavy machinery).
- **Noise Contours:** Developing noise contour maps to visualize impact areas and inform mitigation strategies.

A MWBE/SBE/DBE Certified Company

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Noise & Vibration Monitoring

- **Baseline Monitoring:** Establishing existing noise and vibration levels at project sites and sensitive receptor locations.
- **Construction Monitoring:** Real-time and continuous monitoring of noise and vibration during construction activities to ensure compliance and manage impacts.
- **Operational Monitoring:** Assessing noise and vibration levels from operational sources (e.g., transit lines, traffic, machinery).
- **Diagnostic Monitoring:** Identifying specific noise and vibration sources and characteristics for targeted mitigation.



Abatement & Mitigation Analysis

- **Noise Abatement Studies:** Identifying and evaluating feasible and reasonable noise abatement measures, including sound barriers, berms, building insulation, and operational modifications.
- **Sound Wall Placement & Evaluation:** Determining optimal placement, height, and materials for sound walls to achieve desired noise reduction.
- **Feasibility Assessments:** Analyzing the technical and economic feasibility of various mitigation options.

Other Relevant Services

- **Regulatory Compliance:** Navigating federal (e.g., FHWA), state, and local noise and vibration regulations and assisting with permitting.
- **FTA Noise and Vibration Analysis:** Conducting analyses specifically for projects receiving Federal Transit Administration funding.
- **Impact Assessment:** Preparing detailed noise and vibration impact sections for environmental documents (e.g., NEPA, CEQA).
- **Community Outreach & Planning Support:** Assisting with public meetings, addressing community concerns, and integrating noise and vibration considerations into project planning, land use plans, and general plans.

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