novus ENVIRONMENTAL NOW PART OF SLR

Industry

Potential impacts on communities resulting from facility air, noise and wastewater emissions will continue to play an increasing role in both industrial approvals and in land-use planning. This will be important as municipalities pass air quality, noise and other bylaws which can result in land use compatibility issues and affect industrial operations. In addition, there is an increased need for industry to consider the cumulative effects associated with their facilities.

Novus can help

Specializing in air quality, noise, vibration and sustainable water management, we use our knowledge to understand our client's needs and to develop feasible, working solutions. Our experts have decades of experience in dealing with industrial environmental approvals and environmental assessments.

SERVICES:

- Local Air Quality, Dust and Odour
- Regional Air Quality
- Environmental and Occupational Noise
- Water and Wastewater Systems Analysis
- Environmental and Occupational Vibration
- Cumulative Effects

SECTORS:

- Automotive
- Agri-business and Food
- Chemical / Petrochemical
- Energy
- Manufacturing
- Mining and Aggregates
- Metal Works
- Recycling Pulp and Paper
- Waste Management and Disposal
- Waste Water Treatment

Industry

AIR QUALITY

Local Air Quality: Computer modelling used to determine existing and future pollutant levels at sensitive receptors. Frequently used dispersion models include AERMOD, ASHRAE, CALPUFF, and physical dispersion modelling (wind tunnel).

Regional Air Quality (Smog and Fine Particulates): Regional computer modelling of primary and secondary air pollution at the city, census or provincial/state scale, for large-scale projects which may have regional, cumulative effects, using CMAQ and CAMx

SOUND & VIBRATION

Environmental Noise: Measurement and computer modelling of industrial sources, to determine existing and future sound levels at noise sensitive receptors. This type of modelling is typically undertaken to determine the need for noise mitigation (e.g., mufflers, barriers, enclosures). Models applied include ISO-9613 (Cadna/A).

Environmental Vibration: Measurement and modelling to determine existing and future levels of ground-borne or structure-borne vibration due to industrial sources, such as stamping presses. Analysis is normally completed to determine the need for source-based, path-based, and receptor-based mitigation measures.

WHY NOVUS:

- Wide-ranging experience with industrial assessments for hundreds of successful projects, including environmental applications
- Direct access to senior specialists in noise, vibration, air quality and sustainable water management
- Extensive experience working with government regulators, and with public presentation of results
- Qualified expert witnesses

STUDY TYPES:

- Regulatory Approvals (Air & Noise)
- Maximum Ground Level Concentration Acceptability Requests and Alternative Standards Development
- Acoustic Assessment Reports and Acoustic Audits
- Air Quality, Dust and Odour assessments for Land Use Planning
- Occupational Noise and Vibration assessments
- Support for Environmental Assessment applications
- Hydro-climate modelling
- Water and energy process mapping
- Wastewater regulatory compliance

Occupational Noise and Vibration: Measurements and modelling of occupational noise and vibration levels for workers.

SUSTAINABLE WATER SYSTEMS ANALYSIS

Pollution Prevention Strategies: Moving beyond regulatory compliance, pollution prevention approaches reduce the cost of treating and disposing of contaminants in wastewater by identifying the source of the pollutants and either modifying process or replacing products used upstream.

Water & Energy Efficiency: Reducing waste in water, energy and materials used, lowers costs and efficiently brings firms into regulatory compliance. Our integrated water and energy approach includes development of alternative supplies, maximizing the efficiency of resource use through recycling and fully exploiting the value in wastewater including extraction of heat, nutrients and energy.

Demand Forecasting & Vulnerability: Novus brings together hydroclimate modelling and demand forecasting to identify vulnerabilities in future planning. This approach supports management strategies that improve sustainability and can assist in determining future location and design of facilities.

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Harmonizing the built and natural environments