



Incorporated in 1982, Michael Brandman Associates (MBA) has provided thousands of public agencies and private development clients throughout California with environmental management services. Our disciplinary specialties include **environmental planning, regulatory compliance, natural resources management, cultural resources management, restoration planning & monitoring, air quality & climate change analysis, and water resources management.**

The MBA team possesses an intimate understanding of environmental regulations, laws, and compliance. Staff has hands-on experience managing complex projects with diverse challenges. As a testament to our skill level, MBA staff is regularly called upon to provide expert testimony & policy analysis, instruct at technical seminars, and lead conferences.

MBA AIR QUALITY TEAM

MBA's six person Air Quality Team brings nearly a century of combined air quality experience that is on the leading edge of California air quality professionals. Our air quality team has staff in northern, central, and southern California to meet the diverse needs of our clients. MBA Air Quality Team members have experience in land use and air quality planning, air emissions analysis, greenhouse gas emissions inventory development, dispersion modeling, and health risk assessment.

Four of our team members have experience as staff with state and regional air quality agencies. Our team provides a complete range of legally defensible air quality and climate change services to support California Environmental Quality

We ensure our environmental documents contain thorough environmental analyses and explicit documentation of all data sources and research contacts. Our approach significantly reduces the potential for a legal challenge to be successful.

Act (CEQA) and National Environmental Policy Act (NEPA) documents and air quality regulatory requirements for public agencies and the private sector.

AIR QUALITY AND CLIMATE CHANGE ASSESSMENTS

MBA is a leader in preparing air quality and greenhouse gas/climate change assessments to support environmental documents, General Plans, and development projects. MBA has prepared over 60 project climate change assessments and hundreds of air quality assessments in the last five years. Example services include:

- Produce legally defensible air quality and climate change sections for Environmental Impact Reports (EIR), Negative Declarations and Mitigated Negative Declarations (MND), and NEPA documents.
- Criteria pollutant and greenhouse gas emission inventories for projects, plans, and communities.
- Mitigation strategy development and quantification.
- Expert testimony and peer review.
- General Conformity analyses for federally funded and tribal projects.



HEALTH RISK ASSESSMENTS

Most regulatory agencies require that a health risk assessment be performed for projects involving the release of toxic air contaminants such as diesel particulate matter from diesel trucks, benzene from gasoline service stations, and "perc" from dry cleaners. Such projects include warehouse, large industrial facilities, roadways, mixed-use projects, and large retail/commercial projects. Our technical staff will prepare the necessary assessment by quantifying toxic air emissions and resulting health risks at sensitive receptors using advanced toxic air emission and health risk assessment tools.

AIR QUALITY AND CLIMATE CHANGE ELEMENTS

The MBA Air Quality Team of air quality and land use professionals is uniquely qualified to assist cities and counties preparing Air Quality and Climate Change Elements and the analysis necessary to address air quality and climate change in General Plan Updates. Air quality is an optional element in most of California except in the San Joaquin Valley where Assembly Bill 170 requires amendments to address air quality. Based on recent Attorney General actions and comments, greenhouse gases and climate change also must be addressed in General Plan Updates throughout California. MBA can provide Air Quality and Climate Change Elements including data and analysis, goals, policies, and feasible implementation strategies that fulfill all requirements and provide an interim solution for cities and counties that are not ready to prepare a Climate Action Plan. MBA has prepared three Air Quality Elements that addressed climate change in the last year.

CLIMATE ACTION PLANS

MBA has built on its project level climate change assessment experience and overall emission inventory expertise to prepare high quality yet affordable Climate Action Plans and Greenhouse Gas Inventories for cities and counties. Climate Action Plans provide more detail regarding specific actions the city or county will take to demonstrate consistency with emission reduction targets adopted by the State of California to implement AB 32. Climate Action Plans, also referred to as Greenhouse Gas Reduction Plans, offer a means to demonstrate that emissions from future development will be reduced sufficiently to allow a finding of less than significant for CEQA. MBA has developed plan strategies based primarily on achieving emission reductions from future development projects and from programs and regulations that affect all sources of greenhouse gases. MBA has prepared three Climate Action Plans in the last year.

INDIRECT SOURCE REVIEW

An indirect source is any land use that generates or attracts vehicular activity, which results in pollutant emissions. A number of air districts within California have adopted, or are planning to adopt, air quality rules relating to the impacts of indirect sources. For example, the San Joaquin Valley Air Pollution Control District (SJVAPCD) requires certain development projects to submit Air Impact Assessment applications for emissions review and possible fees pursuant to their Rule 9510. MBA can prepare preliminary fee estimates, Air Impact Assessment applications, mitigation packages, provide application management, and integrate Rule 9510 into CEQA air quality studies. MBA works closely with the SJVAPCD to ensure projects maximize mitigation credit, thereby minimizing fees.

AIR QUALITY EDUCATION & TRAINING

Our highly accomplished air quality professionals can successfully navigate your project through new and changing regulations. The Air Quality team has presented at conferences for the Association of Environmental Professionals, American Planning Association, Air & Waste Management Association, and Building Industry Association. The MBA Air Quality Team has presented on a number of topics including: greenhouse gases and climate change; air quality modeling techniques; air quality in CEQA/NEPA documents; and regulatory compliance.

The Mission of MBA is to assist our clients in achieving the delicate, sometimes elusive, balance between environmental protection and development.

MBA is committed to providing excellent service, accurate research, thoughtful recommendations, and innovative solutions for the mutual success of our clients and our practice.

We believe our associates and their expertise are fundamental to this success and we are determined to create a business environment that is people-centered, providing the essential components for professional development and personal well-being.



Michael Brandman, Ph.D.

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**AIR QUALITY
CONSULTING SERVICES**