

RESILIENT PLANNING SOLUTIONS FOR DISASTER RECOVERY

Michael Baker
INTERNATIONAL



*Beach Seawall Mitigation and Coastal Recreation Economic Services
Solana Beach, California*

ABOUT US

The Michael Baker International and Tidal Basin team provides end-to-end planning services that help communities strengthen resilience and recover from disasters—addressing both immediate needs and long-term recovery strategies. From hazard mitigation plans to post-disaster redevelopment plans, we support the full spectrum of recovery-focused services that strengthen communities, safeguard economic stability and promote long-term resilience.

Planning for Recovery and Prosperity

We guide communities through recovery with a strategic, comprehensive approach—helping them not just rebuild but thrive toward greater prosperity. Whether navigating funding, timelines or regulations, our team helps prioritize, sequence and track recovery efforts. We focus on empowering communities to overcome challenges and build stronger futures that create opportunity and enhance quality of life through coordinated planning, expert support and accountable execution.

We Make a Difference



CalRecycle Inland Fire Wildfire Recovery | California



CalRecycle Inland Fire Wildfire Recovery

Napa, Sonoma, Mendocino, Lake, Solano, Yuba and Yolo Counties, California

Client: California Department of Resources Recycling and Recovery (CalRecycle)

Michael Baker partnered with Tidal Basin to assist FEMA's Major Disaster Declarations for the 2020 California wildfires, which burned 4.5 million acres across seven counties. Using Smartsheets and geographic information systems, we documented research and field work, oversaw construction and expedited cleanup. Our team also developed a real-time progress dashboard to track restoration efforts, ensuring transparency and efficiency throughout the recovery process.

FDOT State Highway System Resilience Action Plan

Statewide, Florida

Client: Florida Department of Transportation (FDOT)

Michael Baker provided meeting support, writing, plan editing and public engagement design for the development of the FDOT State Highway System (SHS) Resilience Action Plan. As a subject matter expert and consultant project manager, the team supported vulnerability assessment and strategies addressing the consequences of climate change on the SHS.

New Jersey Climate Change Resilience Strategy

New Jersey

Client: New Jersey Department of Environmental Protection

Michael Baker developed New Jersey's first Climate Change Resilience Strategy, outlining 125 actions to strengthen the state against sea-level rise, flooding, rising temperatures and severe storms. This guiding document promotes long-term mitigation, adaptation and resilience for communities, infrastructure and natural resources. The strategy builds on New Jersey's first Scientific Report on Climate Change, to which Michael Baker also contributed, ensuring a comprehensive approach to climate preparedness.

Hurricane Helene Housing Program NEPA Tiered Environmental Reviews

Southwest South Carolina

Client: South Carolina Office of Resilience

Michael Baker prepared five Tier 1 Environmental Assessments for the South Carolina Office of Resilience's Hurricane Helene Housing Program in five counties. The assessments addressed broad-level environmental laws and outlined Tier 2 strategies for site-specific issues. Additionally, Michael Baker completed an eight-step process for floodplain impacts, coordinated with agencies, managed public comment notices and uploaded all final reports.

Community Development Block Grant (CDBG)-Disaster Recovery (DR) Action Plan Development

California

Client: State of California's Department of Housing and Community Development

Tidal Basin provided technical services to develop the state's CDBG-DR Action Plan for deadly wildfires and corresponding allocation. Our services included development of unmet needs and mitigation needs assessments, CDBG-DR program design, distribution methods and public outreach, implementation planning and staff training. Additionally, we helped identify and prioritize unmet needs for long-term recovery and resilience, ultimately programming over \$1 billion in support.

Raritan/Sandy Hook Bay Coastal Resilience Planning Study

Naval Weapons Station Earle, Monmouth County, New Jersey

Client: Monmouth County

Michael Baker led the Coastal Resilience Planning and Design Study for Naval Weapons Station Earle, building on the Joint Land Use Study. Through community-driven, data-informed collaboration with Bayshore municipalities, the team identified sites and developed concept plans for nature-based solutions, including living shorelines.

Ramsey County Hazard Mitigation Plan

Minnesota

Client: Ramsey County Emergency Management and Homeland Security

Tidal Basin updated the county's Hazard Mitigation Plan to assess and reduce the impacts of natural and human-caused hazards, with active participation from 18 jurisdictions. The process included revising hazard profiles and updating the capabilities assessment to reflect current resources and strengths, focusing on planning and regulatory capacity, administrative and technical resources, fiscal resources and outreach efforts. The mitigation strategy was enhanced with new measures addressing emerging risks and vulnerabilities.

Marion County Stormwater Master Plan

Marion County, South Carolina

Client: South Carolina Office of Resilience

Marion County has faced severe flooding from storm events. To help reduce future flood impacts, Michael Baker was engaged to develop a comprehensive stormwater master plan. This effort includes identifying flood-prone areas, assessing existing stormwater systems, prioritizing improvement projects and creating an implementation strategy for those projects.



Central and South Basins Stormwater Infrastructure | Village of Key Biscayne, Florida

CORE STRENGTHS

Disaster Preparedness and Response

We develop actionable plans for evacuation, emergency communications and coordinated response operations.

Risk Assessments and Hazard Mitigation

We identify vulnerabilities and develop and implement targeted strategies to reduce risk.

Recovery and Resilience Strategies

Our frameworks support both immediate recovery and long-term mitigation and adaptation, including infrastructure restoration and enhancement, economic development and hazard resilience.

Community Engagement

We prioritize inclusive planning through risk communication, scenario planning, and immersive visualization and communication tools.

Economic and Environmental Integration

Our solutions align recovery planning with a community's near-term economic development, environmental goals, housing needs and land-use priorities.

Data and Technology

We leverage multidisciplinary data and technologies that enable scalable resilience with greater efficiency, lower cost and multiple benefits with built-in adaptability to future conditions.

Visit mbakerintl.com and tidalbasingroup.com for more information.

CONTACT

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STRENGTHENING COMMUNITIES FOR TODAY'S CHALLENGES AND TOMORROW'S RISKS THROUGH INTEGRATED RESILIENCE PLANNING SERVICES.

RESILIENCE PLANNING

- Business Continuity Planning & Supply Chain Resilience
- Data Analytics & Predictive Risk Modeling
- Disaster Preparedness & Response Plans
- Disaster Recovery Staff Extension
- Continuity of Operations Planning
- Evacuation & Emergency Communication Plans
- Energy Use & Conservation
- Feasibility & Mitigation Studies & Strategies
- Federal Facilities Resilience Plans
- Historic Preservation & Infrastructure Recovery Plans
- Land Use & Land Development
- Multi-modal Transportation Planning
- Resilience Project Development Guides & Prioritization
- Resilient Urban Design
- Short- and Long-term Recovery Planning
- Transportation & Utilities Planning

HAZARD MITIGATION & CLIMATE ADAPTATION PLANNING

- Climate Risk & Hazard Mitigation Plans
- Risk & Vulnerability Assessments
- Scenario Planning
- Resilience Impact Analysis

WATER RESOURCES MANAGEMENT & FLOOD MITIGATION

- Coastal Structural Analysis
- Dam & Levee Stability Assessments
- Flood & Drought Monitoring, Modeling & Forecasting
- Flood Mitigation & Resilience Plans
- Sea Level Rise & Storm Surge Analysis
- Stormwater & Wetlands Management

ENVIRONMENTAL PLANNING & COMPLIANCE

- Ecosystem Restoration Planning
- Environmental & Entitlement Planning
- Environmental Permitting Support Services
- National Environmental Policy Act Compliance

STAKEHOLDER ENGAGEMENT

- Risk Communications
- Stakeholder Engagement
- Virtual Reality Visualization

GRANT ADMINISTRATION, STRATEGY & CAPTURE, ECONOMIC DEVELOPMENT & HOUSING

- CDBG Administration
- Housing & Community Development Planning
- Benefit-Cost & Financial Feasibility Analysis
- Business & Capital Planning & Programming
- Economic Development & Fiscal Impact Analysis
- Environmental Economics
- Fee & Rate Studies
- Market & Real Estate Analysis
- Performance Auditing
- Post-disaster Recovery Housing
- Transit-oriented Development