

**GARY K. URBAN, PE, RGE**  
**President, CEO**  
**Principal Geotechnical Engineer**



**PROFESSION**

Geotechnical Engineer  
Civil Engineer

**REGISTRATIONS**

Registered Civil Engineer –  
State of California  
Registered Geotechnical Engineer  
State of California  
Registered Civil Engineer –  
State of Colorado  
Registered Civil Engineer –  
State of Nevada

**EDUCATION**

B.S. Civil Engineering – California  
State University, Long Beach

**PROFESSIONAL  
EXPERIENCE**

GMU Geotechnical, Inc.  
(1978-Present)

Principal and President; Principal  
Geotechnical Engineer; Rancho  
Santa Margarita, California

Western Laboratories  
(1976-1978)

Soils and Laboratory Technician,  
Gardena, California

**PROFESSIONAL  
AFFILIATIONS**

ASCE – Member  
BIA – Member  
CalGeo – Member, former Board  
of Directors  
ULI – Member

**SUMMARY OF EXPERIENCE & QUALIFICATIONS**

Gary Urban is the company's President and CEO, with more than 30 years of experience to lead GMU's strategic vision and policy direction. He oversees all of the firm's geotechnical consulting services. He has worked successfully with industrial, residential, and commercial developers, master community planners, and governmental agencies. Mr. Urban has a unique ability to view large development projects from all aspects, and to provide proactive long-term guidance. He has extensive experience in all aspects of geotechnical engineering including: water resource projects, residential and commercial development, public works projects, municipality consultation, bridges, forensic projects, mechanically stabilized earth walls, and forensic projects. In addition, he has served as an expert witness in regards to numerous geotechnical issues.

- Master-Planned Communities
- Bridges
- City Geotechnical Engineer
- Residential Development Projects
- Commercial/Industrial Projects
- Landslides
- Geotechnical Instrumentation
- Major Roadways
- Special Studies
- Water Resource Projects
- Legal Consultation

## **MASTER PLANNED COMMUNITIES:**

- < Ladera Ranch Planned Community – DMB/Rancho Mission Viejo: Complete geotechnical services for planned community including infrastructure, water reservoirs and retention basins, bridges, commercial, and residential development areas.
- < Rancho Santa Margarita - Santa Margarita Company: Complete geotechnical services for entire community including roadways, lake, reservoirs, commercial, and residential development.
- < Rancho Niguel - Buie Development Company: Complete geotechnical services for project including major hillside grading and landslide remediation.
- < Talega - Talega Associates: Complete geotechnical services for residential hillside development.

## **BRIDGES:**

- < Antonio Parkway San Juan Creek Bridge - County of Orange: Geotechnical design services for the 800-foot-long, six-lane bridge crossing San Juan Creek.
- < Oso Parkway Pedestrian Overpass - Vintage Communities: Geotechnical design and construction services for pedestrian bridge over Oso Parkway in Las Flores.
- < Antonio Parkway Wildlife Corridor Bridge - County of Orange: Geotechnical design services for the six-lane bridge over a natural wildlife corridor.
- < Crown Valley Parkway Bridge - DMB/Ladera LLC: Design services for six-lane Crown Valley Parkway Bridge in Ladera Ranch Planned Community.

## **CITY GEOTECHNICAL ENGINEER:**

- < City of Laguna Niguel - (1995 - Present): Review of geotechnical reports, planning evaluation, legal consultation, geotechnical hazards analysis.
- < City of Chino Hills (1992-97 & 2002-Present): Review of geotechnical reports, preparation of guidelines for report submittal and grading procedure requirements, public works projects, and general geotechnical consultation.

## **RESIDENTIAL DEVELOPMENT PROJECTS:**

- < Coto de Caza - Coto de Caza, Ltd. and Lennar Homes: Geotechnical investigations, grading and foundation design, and construction monitoring for several residential planning areas within the community.

- < Santaluz – Taylor Woodrow Homes: Geotechnical studies and construction services for the residential golf course community.
- < Newport Coast - Irvine Community Development Company: Geotechnical investigations, grading and foundation design, and construction monitoring for several planning areas within the community.

**COMMERCIAL/INDUSTRIAL PROJECTS:**

- < University Research Park - Irvine Industrial Company: Geotechnical investigation, grading and foundation recommendations, and construction monitoring.
- < Spectrum 7 - Irvine Industrial Company: Geotechnical investigation, grading and foundation recommendations, and construction monitoring.

**LANDSLIDES:**

- < Voyager Lane Landslide – Laguna Niguel, California: Lead Investigator – Detailed evaluation of long-term monitoring data leading to the development of an innovative long-term repair consisting of a horizontal drain system, a surface water infiltration mitigation system, and roadway stabilization and subgrade strengthening.
- < Via Estoril Landslide – Laguna Niguel, California – Emergency response to large landslide which endangered numerous residential structures, emergency geotechnical recommendations, review of interim and final repairs.

**GEOTECHNICAL INSTRUMENTATION:**

- < Ladera Residential Development – County of Orange, California: Principal Geotechnical Engineering Oversight of “real time” monitoring system for electrical towers above temporary slopes during grading.
- < Crystal Cove – Newport Coast, California: Project Director – Long-term evaluation of surface and subsurface survey network and slope inclinometers to evaluate deep fill/fill slope performance.

**MAJOR ROADWAYS:**

- < Ortega Highway Widening – County of Orange/City of San Juan Capistrano: Lead Geotechnical Engineer – Geotechnical investigation and development of design recommendations in compliance with County and Caltrans standards.
- < La Pata Avenue Extension – County of Orange/City of San Juan Capistrano/City of San Clemente, California: Principal Geotechnical Engineering oversight and project management for planning, EIR and design.

### **SPECIAL STUDIES:**

- < Aviara Residential Distress Investigation - Taylor Woodrow Homes: Investigation and analysis of distress to residential structures.
- < Pelican Point Distress Studies - The Irvine Company: Investigation of distress to walls and lots within the Pelican Point development.
- < Distressed Roadway Studies - City of Laguna Niguel: Pavement and subsurface soils investigation of distressed roadways throughout the City and recommendations for remediation.

### **WATER RESOURCE PROJECTS:**

- < Horno Basin Ladera Ranch – Rancho Mission Viejo: Design and construction services for water retention, and reclamation basin.
- < Phase II Water Line/Reaches 1 and 2 - Santa Margarita Water District: Alignment study and observation and testing during construction.
- < Sand Canyon Avenue Water Transmission Main - Irvine Ranch Water District: Construction observation and testing.
- < Ladera Reservoir Location Study - Santa Margarita Water District: Evaluation of potential reservoir locations throughout hillside development area.

### **LEGAL CONSULTATION:**

- < Geotechnical consultation for litigation on a wide variety of projects including landslides, foundation distress, retaining structures, concrete corrosion, groundwater, and earthwork/grading problems. Mr. Urban has served as expert witness numerous times and has testified in court.