

# GEOLOGICAL & SOILS CONSULTING

**Mitch Bornyas, PG, CEG**

## Providing Quality Geoscience Consulting Services

*Soils Geomorphology, Fault Investigations,  
Geoarchaeology, Soil Surveys,  
Engineering Geology*

## STATEMENT OF QUALIFICATIONS

### SERVICES

#### Geological & Geotechnical

Geologic Mapping & Investigations  
Due Diligence Geologic Studies  
Geologic Hazard Assessments  
Fault Rupture Investigations  
Landslide Susceptibility  
Third Party Review  
Percolation Testing



#### Soils & Geomorphology

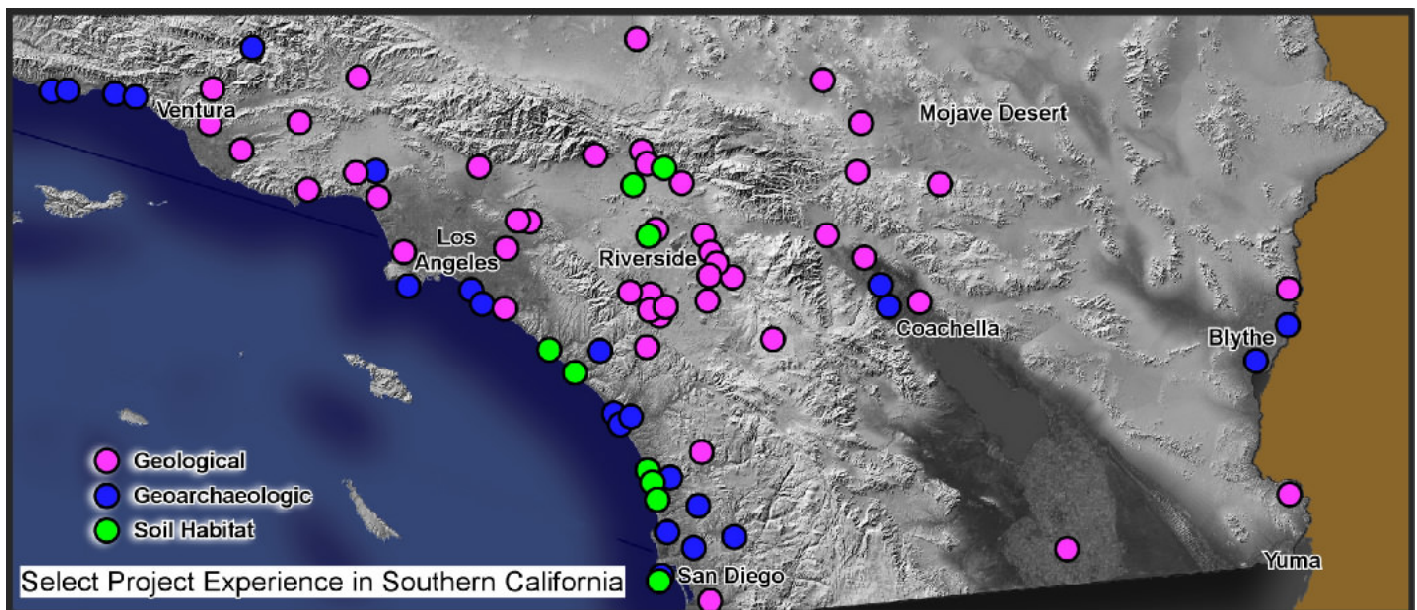
Soil Profile & Stratigraphic Characterization  
Relative Soils Age Dating  
Geomorphological Mapping  
Geoarchaeology  
Depositional & Disturbance Assessments  
Stratigraphic Modeling  
Soil Survey Mapping  
Soil Habitat Characterization

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## PROFESSIONAL SUMMARY

Mr. Bornyasz has over 15 years professional experience in the geosciences with specific areas of skill in Quaternary geology, soils-stratigraphy, geomorphology, geoarchaeology, sedimentology, and engineering geology. These skills have been applied to the engineering-geologic practice through his contribution as the lead geologist for studies involving commercial properties, residential communities, utilities, and public works throughout southern California. In addition to recognizing land-use opportunities and constraints, he develops geotechnical mitigation alternatives for geologically sound project design recommendations. Supplementary to having geotechnical expertise, he is an experienced soils-geomorphologist proficient at characterizing soils and landscape evolution, paleo-environment reconstruction, and determining the relative degree of post-depositional alteration for sedimentary deposits. He provides an interdisciplinary approach and has worked successfully with project team members to solve geological, engineering, archaeological, and resource management problems. He is adept at developing and managing projects utilizing methods that are both cost-effective and solution oriented.



## License

Professional Geologist, CA License # 7973

Engineering Geologist, CA License # 2416

## Education

1993 B.S. Geological Sciences, San Diego State University, California.

1997 Completed coursework toward M.S. degree in Geological Sciences, San Diego State University, California

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## GEOLOGICAL AND GEOTECHNICAL

As a California licensed Professional Geologist and Certified Engineering Geologist, Mr. Bornyas has performed many geological and geotechnical investigations for public, commercial/industrial, and residential clients throughout Southern California. He has conducted or participated in numerous EIR and geotechnical investigations for public, residential and commercial developments which have included slope stability and liquefaction analysis, fault location studies/seismic risk analysis, and geotechnical evaluations. He has an extensive background in identifying and evaluating land-use constraints and developing recommendations for mitigation of the potential impacts of geologic hazards at the design stage of projects. He is experienced in the site-specific investigation of the physical and chemical soil properties influencing the engineering characteristics of geologic deposits.

*Select Geological and Geotechnical Investigations include:*

### Public Works / Institutions

- \* Victorville Landfill Expansion, Victorville, CA - Fault Hazard Investigation, Staff Geologist
- \* Anza Sanitary Landfill, Anza, Riverside County, CA - Deep Groundwater Contaminate Monitoring Well, Sighting and Design, Project Geologist
- \* Proposed 1.8 M.G. Water Tank, Avocado Mesa, Riverside County, CA - Preliminary Geotechnical and Landslide Hazard Investigation, Project Geologist
- \* Hemet-Ryan Air Attack Fire Facility Revitalization, Hemet, Riverside County, CA - Geotechnical Investigation, Project Geologist
- \* San Bernardino Valley College Building Expansion, San Bernardino County, CA. - Fault Hazard Investigation, Sr. Staff Geologist
- \* Geologic Safety Element of General Plan Update, Riverside County, CA - Staff Geologist

### Commercial & Industrial

- \* Multiple Commercial Development Sites in Southwestern Riverside County, CA - Geotechnical Investigations, Project Geologist
- \* Scott Road Widening and Re-alignment, Murrieta, Riverside County, CA - Preliminary Geotechnical Investigation, Project Geologist
- \* Ivy Street Bridge, Murrieta, CA - Preliminary Geotechnical Investigation, Project Geologist
- \* San Manuel Water Bottling Facility, Highland, CA - Field Geologist

### Residential

- \* Tejon Ranch Specific Plan, Kern County, CA - Geologic Hazard Investigation, Field Geologist
- \* Park Hill Specific Plan, Proposed 318-Acre Residential Development, San Jacinto Area of Riverside County, CA - Geotechnical Investigation, Project Geologist
- \* Quail Ranch, 585-Acre Proposed Residential Development, Moreno Valley Area, Riverside County, California - Geotechnical Investigation, Project Geologist



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## GEOMORPHOLOGY AND GEOARCHAEOLOGY

Mr. Bornyas has been a consulting soils-geomorphologist for numerous archaeological investigations. His contributions to archaeological studies typically include: site geological characterization and depositional context, paleo-environmental reconstruction, site integrity/disturbance assessments, and determining the relative ages for geologic deposits containing cultural materials.

*Select Archaeological Projects include:*

- \* Harris Site Archeological District, San Dieguito River Valley, San Diego County, CA
- \* Fort Rosecrans, Ballast Point SDI-48, Point Loma, San Diego, CA
- \* Black Mountain Ranch Development, SDI-4832, 4833, and 4842, San Diego, CA
- \* Red Beach/Las Flores Creek, Sites SDI-812h, LP-1, LP-2, SDI-10723, Marine Corps Base, Camp Pendleton, CA
- \* Santa Margarita River Valley, SDI-12628 and SDI-10156, Camp Pendleton Marine Corps Base, CA
- \* Sites SDI-8605, SDI-13485, SDI-13486, Tijuana River Valley, San Diego County, CA
- \* Multiple Sites along the North Baja Pipeline Project, Imperial County, CA
- \* Coral Mountain Park, RIV-1715, PR-1, and PR-2, City of La Quinta, Riverside County, CA
- \* Archaeological Site ORA-83, located on Bolsa Chica Mesa, Orange County, CA
- \* Multiple Archaeological sites along coastal Santa Barbara County, CA
- \* Geoarchaeological assessment for proposed 4,000-acre power generation facility, Desert Center area of Mojave Desert, Riverside County, CA

## SOIL SURVEYS AND BIOLOGICALLY SENSITIVE HABITAT

Mr. Bornyas has conducted soil surveys and pedologic studies for several biological habitat site assessments. The soil surveys involve subsurface investigation combined with aerial and field mapping to characterize the soil series that are present and delineate their distribution and variability.

*Select Soil Survey Projects include:*

- \* Soils Survey for Three Parcels, Intersection of 6th Street and Haven Avenue, City of Rancho Cucamonga, CA
- \* Soils Survey for the 31-Acre Site of Proposed Water Storage Tank Facility (Jurupa Community Services District), Jurupa Hills, Riverside County, CA
- \* Pacific Pocket Mouse Translocation Receiver Sites - Soil Habitat Study, Six proposed receiver sites in San Diego and Orange Counties, CA
- \* Stephens' Kangaroo Rat Preserve, March Air Reserve Base, Riverside - Soil Characterization Study, Riverside, CA