

**Jene E. Lyle, P.E.**  
**Senior Managing Engineer**

**Professional Profile**

Mr. Jene Lyle is a Senior Managing Engineer in Exponent's Civil Engineering practice. Mr. Lyle has more than 30 years of broad-based municipal, subdivision engineering, and floodplain management experience. He has completed drainage, hydrology, grading, sewer, and water plans for a variety of development projects. These projects have ranged from shopping centers and parking lots to major highways with sensitive ecological areas. Mr. Lyle has participated in the hydrological and hydraulic analyses of more than ten floodplain management projects, six of which included alluvial fan flooding. Letters of Map Revision (LOMR's) were obtained on three of these projects. Mr. Lyle has worked on four hydrology manuals and three master plans of drainage. He was involved with the design of storm drain improvements for a section of the San Joaquin Hills Transportation Corridor (SJHTC). Mr. Lyle participated in the review of drainage/flooding potential for Laguna Canyon and the preparation of the Runoff Management Plans for the SJHTC.

Prior to joining Exponent, Mr. Lyle acted as District Engineer for storm drain improvements and storm drain maintenance for the Three Arch Bay Community Services District and still continues in that capacity. Mr. Lyle was project manager for the 450-acre multi-phased business park in Rancho Santa Margarita and the redevelopment of a 30-acre earthquake-damaged site in West Hills. Mr. Lyle performed storm drain design for improvements within and adjacent to Disneyland for WDI and Disneyland.

**Academic Credentials and Professional Honors**

M.S., Civil Engineering, California State University, Fullerton, 1977  
B.S., Civil Engineering, California State Polytechnic University, Pomona, 1971

**Licenses and Certifications**

Professional Civil Engineer, Nevada, #12036  
Professional Civil Engineer, California, #24876

## **Conferences, Presentations, and Workshops**

Shaller P, Hamilton D, Doroudian M, Shrestha P, Lyle J, Cattarossi A. Investigation of flood hazards on alluvial floodplains. ASCE World Water and Environmental Resources Congress, Anchorage, AK, May 16–19, 2005.

Hamilton D, Shaller P, Shrestha P, Lyle J, Doroudian M. Investigating flood hazards on alluvial floodplains. Presentation, Alluvial Fan Flood Hazard Management Symposium, Phoenix, AR, April 20–22, 2005.

Shaller P, Hamilton D, Lyle J, Medley E, Mathieson E, Shrestha P. Fire-flood-erosion sequence: analysis and mitigation. Presentation, Arid Regions 10<sup>th</sup> Biennial Conference, Restoration and Management of Arid Watercourses, November 16–19, 2004, Mesa, AZ.

Hamilton D, Shaller P, Lyle J, Doroudian M, Shrestha P. Multi-disciplinary approach to distinguishing flood hazards on alluvial floodplains. Presentation, Arid Regions 10<sup>th</sup> Biennial Conference, Restoration and Management of Arid Watercourses, Mesa, AZ, November 16–19, 2004.

## **Prior Experience**

Project Manager, Boyle Engineering Corporation, 1993–1999

Project Engineer/ Project Manager, Williamson and Schmid, 1977–1993

Senior Engineer, C.F. Braun Corporation, 1974–1977

Engineer, Krueper Engineering and Associates, 1970–1974

## **Project Experience**

Prepared hydraulic models for new development along San Francisquito Creek, Santa Clarita, CA. Processed model through FEMA through approval of a Conditional Letter of Map Revision (CLOMR).

Prepared hydraulic model and design for new channel to protect a proposed industrial development in Palm Desert, CA from alluvial fan flooding. Study was processed through Coachella Valley Water District and County of Riverside.

Prepared flood hazard studies for several land developments in the Coachella Valley area.

Participated in the San Joaquin Hills Transportation Corridor project, which involved the design of a 1.5-mile segment of the toll road, including two interchanges with bridges. Responsibilities included permit coordination for entry permits from public entities and private landowners that were required for engineering design. Assisted in the preparation of the Runoff Management Plan (RMP) and property appraisal for this multi-office project.

Participated in a comprehensive flood hazard delineation for the northern side of the Coachella Valley, CA. The study and resulting flood map will serve as a basis for FEMA remapping the floodplain.

Participated on the team of engineers and geologists performing field investigation and review of watershed recovery after a wildfire in Lewiston, CA. Prepared comparative estimates of erosion potential and debris production.

Served as project manager on a 30-acre project to redevelop an existing earthquake-damaged site. Participated in the design, and oversaw the preparation of construction drawings for precise grading, storm drain improvements and preparation of processing tentative and final tract map.

Prepared CLOMR request for proposed Sespe Creek Levee in Fillmore CA, Ventura County.

Served as project engineer for preparation of Master Plan of Drainage for the Three Arch Bay Community Services District in Laguna Beach, California. Worked as District Engineer for this 500-home community from 1995 to present. Duties included the evaluation of existing facilities and overseeing improvements and/or rehabilitation of the existing storm drain system, coordinating with the Board of Directors, District Manager, Engineering Committee, and homeowners. Also responsible for plan preparation of local improvements, erosion control, and coordination with offsite property owners.

Served as project engineer on the Laguna Canyon Drainage Study for the City of Laguna Beach, California, where stormwater detention options were considered. Staged improvements were considered to help the City make the decision of where they would get the most benefit out of their construction dollars.

Performed on-call engineering services for Orange County's five sanitary landfills relating to drainage, road construction, and grading.

Served as project engineer for the Master Plan of Drainage update for the city of Fullerton, California, a 24-square mile city. The master plan update included preparation of the link-node model and deficiency analysis using AES software.

Served as project engineer for preparation of grading plans and street improvements for the San Ramon Intermodal Transit Facility in San Ramon, California. Coordinated with sewer and water agencies, the City, and various subconsultants.

Assisted with the San Sevaine Channel project in San Bernardino County, California. This project involved performing hydrology studies in this 60+ square mile watershed and optimizing the channel improvements through the use of two major detention basins. This project also included the use of multiple storm centerings and side-weir analyses. Coordinated with the County and performed quality assurance reviews of the analyses and report.

Served as project engineer for the preparation of a hydrology manual for use in the Imperial Irrigation District, California, 860-square mile service area. The hydrology manual included rational method and hydrograph analysis along with other topics such as storm centering and basin routing. The project included the latest NOAA rainfall information.

Served as project engineer for the preliminary engineering services related to site development and drainage for the Mission Viejo Commuter Rail Station in California. Coordination with multiple public agencies was required.

Designed a 450-acre, multi-phased business park, including more than 6 miles of street improvements and utility infrastructure, in Orange County, California. Plans were processed through Orange County Environmental Management Agency (OCEMA) and Santa Margarita Water District.