

MANUEL A. DELGADO, P. E., C. S. E.

MINING PROJECTS:

- Plan Check Engineer for a Surface Water and Groundwater Evaluation for a proposed Volcan Materials Company Quarry Expansion in Sanger-Centerville in the County of Fresno. Hydrology-Ground Water Review for monitoring and production wells adjacent to Kings River. The Department of Water Resources and Fresno County Dept. of Public Works approved the study and recommendations.
- Project Manager for the Hydrology and Hydraulic Design for a proposed Kiewit Pacific Co. Fort Caddy Rd. Quarry, a mining project located at the downstream end of Kane Wash, within a large alluvial fan, in San Bernardino County. The Hydrology and hydraulic study provided flood control and drainage improvements in order to minimize head cutting and sedimentation to property owners.
- Hydrology Engineer for the Hydrology Analysis and Hydraulic Design for the U.S. Gypsum Plaster City Quarry a mining project expansion located upstream of Fish Creek Wash in Imperial and San Diego Counties. The quarry will be used to produce gypsum for wallboard, industrial plasters and soil amendments. San Diego County approved the hydrology study and drainage design for the management of on-site and off-site runoff, in order to avoid changes to the existing drainage patterns and concentration of flows within the existing and proposed mining sites.
- Project Manager for a proposed Granite Mining and Reclamation Plant within the old Big Rock Wash Streambed, located in Los Angeles County, approximately 15 miles east of the City of Palmdale. Pending approval by LACPW, the study determined the 50-year storm runoff and drainage system requirements for off-site and on-site runoff tributary to the proposed project site.

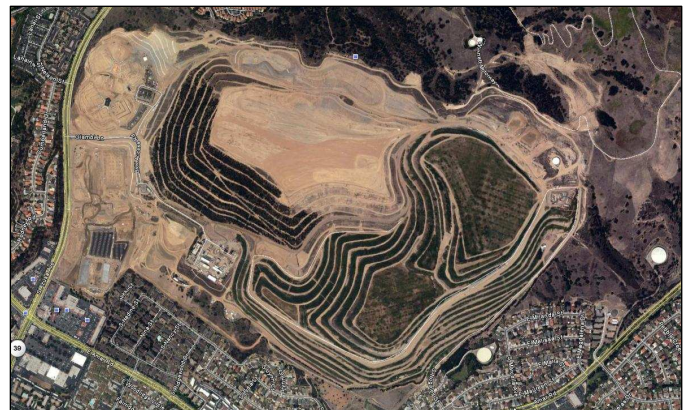


GROUNDWATER PROJECTS:

- Project Manager for the Hydrogeology Investigation for a proposed Hazardous Solid Waste Landfill, Harrisburg, Pennsylvania. As a Principal Engineer working for Parson's Engineering Science, Mr. Delgado conducted a feasibility study in order to locate wetlands and groundwater and protecting it from the landfill cell and potential contamination. Mr. Delgado coordinated the groundwater and hydrogeology in order to identify landfill design requirements.
- Chief Engineer, IWWWD, conducted a ground water investigation in order to determine ground water migration from the Community of Ridgecrest. Mr. Delgado coordinated the hydrogeology investigation with Kern County and several Hydro geologist and determined the location of the groundwater flow, based on hydrographs and field investigations. In addition, Mr. Delgado prepared a concept plan for recharging the Community of Ridgecrest with fresh water using DWP aqueduct.

LANDFILLS:

- Project Manager for the design of a Hazardous Solid Waste Landfill with Nuclear Waste Treatment, Harrisburg, Pennsylvania. As a Principal Engineer working for Parson's Engineering Science, Mr. Delgado conducted a design study for a triple liner cell with an emergency alarm system for the landfill cell, protecting the groundwater from potential contamination. Mr. Delgado design the landfill cell and dewatering system in order to avoid potential contamination.
- BKK Landfill, West Covina, CA. Performed grading, detention basin, storm drain, road design and surveying.
- Royal Boulevard, Class II, Landfill, L. A. County. Performed grading, volume calculations, roads, hydrology and drainage.
- Colton Sanitary Landfill, Colton, San Bernardino County. Performed grading, drainage & hydrology. Coordination with S.B. Co. Parks and Recreation, S.B. Flood Control District and Waste Management, and the Corp of Engineers.
- North Orange County Landfill (NOCLATS), Orange County, CA. Performed a feasibility study for Potential landfill sites (4).
- Lopez Canyon Landfill, Los Angeles. L.A. County. Design, drainage & hydrology.
- Forster Landfill, Orange County. Grading & volume calculations.
- Elixir Industries, Carson, CA. Designed containment basin for above ground tanks, Fire department coordination.
- General Motors, Lockport, N.Y., Designed Oil/Water separator.
- U/G fuel storage tanks design, UCLA, CA. 50,000 gal. (2)



WIND & SOLAR ENERGY PROJECTS: (CONFIDENTIAL, PLEASE CALL FOR MORE INFORMATION)

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