



Gregory M. Hall, PE, QSD/QSP

Project Engineer

Oscar Larson & Associates

REGISTRATION: Civil Engineer #73260, California

EDUCATION: B.S. in Environmental Engineering, minor in Chemistry, Oregon State University, Corvallis, Oregon, 2001

EXPERIENCE:

Mr. Hall has over ten years of experience in stormwater management and monitoring, water and wastewater engineering, commercial and residential development, and construction management.

His experience includes water main rehabilitation and design; hydraulic modeling of water distribution systems; design of public water supply wells; production testing of springs and wells; water and wastewater treatment process analysis and design; sanitary sewer rehabilitation and design; preparation of stormwater hydrologic reports and calculations; stormwater detention basin and culvert design; subdivision design; wet weather testing for onsite wastewater systems; onsite wastewater system design; levee design; construction cost estimating; preparation of construction contract documents including specifications and drawings for bidding and construction; construction management and administration; construction observation and inspection for compliance with contract documents; concrete sampling and testing; compaction testing; and drafting utilizing AutoCAD .

CURRENT PROJECTS:

Martin Slough Interceptor Project Phase 1: Gravity Interceptor, City of Eureka, California: Lead construction observer for the construction of 1,600 linear feet of 18-inch gravity sewer pipe; 3,700 linear feet of 24-inch gravity sewer pipe; 800 linear feet of 30-inch gravity sewer pipe; 600 linear feet of 42-inch gravity sewer pipe; 18 manholes ranging in size from 72-inch diameter to 84-inch diameter with poured in place concrete bases up to 20 feet deep; three auger bores; all weather access roads; asphalt concrete paving and overlays; culvert replacements; fencing; relocation of 500 linear feet of 6-inch water main; relocation of pressure sewer and irrigation lines; and modifications to two sewer lift stations. Experience includes full-time construction observation, monitoring of Best Management Practices (BMP's) and reporting to the project Qualified Stormwater Pollution Prevention Plan Practitioner (QSP), coordinating with testing laboratory and resident engineer, sampling of water pumped from trenches for compliance with Low Threat Discharge permit requirements, review of contractor extra work reports, and review of contractor pay requests. The project was awarded for \$4.4 million and is currently in construction phase.

Mad River Pipeline Phase 4, City of Eureka, California: Project Engineer for the design and construction of 2,400 linear feet of 24-inch ductile iron transmission main for the City. This project is a continuation of projects OLA completed for the City in 2003, 2004, and 2006. Experience includes pipeline design, and preparation of construction contract documents, specifications, drawings, and cost estimate. This project is shovel ready, and is currently on hold pending funding. Estimated cost of construction is \$1.2 million.

PAST PROJECTS:

Community Drinking Water Well #2 (2011), Wiyot Tribe, Table Bluff Reservation, California: Project Engineer for the design and construction of a new 500-foot deep 33-gpm public water supply well



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to serve the reservation. The purpose of the project is to provide the tribe with a higher quality water source and add redundancy to the water system. Experience includes well design, preparation of construction documents including specifications, drawings, and cost estimate, and construction management and administration. Cost of construction was \$218k.

Water System Improvements (2011), Loleta Community Services District, Humboldt County, California: Project Engineer for the design and construction of a new 200-foot deep 140-gpm public water supply well, 1,600-feet of 4-inch transmission main, 200-feet of 6-inch transmission main, an iron/manganese removal treatment plant and building, and associated site grading and improvements including ADA compliant facilities. Experience includes well and pipeline design; site grading design; preparation of construction contract documents, specifications, drawings, and cost estimate; sizing of the well casing, screen and gravel pack; pump selection; and construction contract management and administration. Cost of construction was \$900k.

Various Projects (2011), Spring Creek Utilities Company, Spring Creek, Nevada: Design team member for a new drinking water booster pump station, 300,000 gallon welded steel ground level potable water storage tank, several thousand feet of 16-inch PVC potable water main, and two public water supply wells. Experience includes preparation of construction contract documents and specifications. This project has not been constructed.

Levee Repair Project (2011), Lassen Union High School District, Susanville, California: Project Manager for repairs and upgrades to 175-feet of levee along the Wild and Scenic Susan River damaged by winter 2006 storms. Experience includes acquisition of FEMA and California OES funding, preliminary levee design and calculations utilizing green gabions, and construction cost estimation. This project was not constructed. The estimated cost of construction was \$365k.

Spring Creek Roundabout Water Line Relocation (2010), Spring Creek Utilities Company, Spring Creek, Nevada: Project Engineer for the relocation and upgrade of 500-feet of 8-inch water main to 12-inch. The water main relocation was required by Nevada Department of Transportation (NDOT) due to conflicts with a new NDOT planned roundabout. The project included installation of ±150-feet of pipeline through a steel casing installed by trenchless methods under the NDOT highway. Experience included pipeline design; preparation of construction contract documents, specifications, drawings, and cost estimate; and bidding assistance. Cost of construction was \$120k.

Reservoir Maintenance and Security Project Phase 2 – Electrical, Pumps, and Security (2009), City of Eureka, California: Project Engineer during the construction management phase for upgrades to the City's water reservoir which included construction of a concrete building to house a new standby generator and related electrical, site grading and paving, replacement of vertical turbine pumps, widening of the existing access road around the reservoir, driveway improvements, new fencing, and a new security sensor system. Experience included equipment anchorage calculations and design, design of alteration to driveway entry portion of the site to be ADA compliant and preparation of construction drawings, concrete pad design for new a transformer, management of construction observation and materials testing team, and construction contract management and administration. Cost of construction was \$1.2 million.

Levee Repairs Site #9 Sheet Piling (2009), Levee Repairs Project 'A' (2008) and Fall 2006 Emergency Repairs (2007), Reclamation District 768, Humboldt County, California: Project Engineer for the design and construction of the FEMA and CalEMA (formerly California OES) funded emergency projects which included marine grade sheet piling and rock slope protection repairs and



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upgrades to 3.1-miles of the 4.9-mile long District owned levee system along northern Humboldt Bay and Mad River Slough which were damaged by winter 2006 storms. Experience included permitting assistance; coordination with public agencies; levee design and calculations; preparation of construction contract documents, specifications, drawings, and cost estimate; construction management and administration; full-time construction observation; management of construction observer team; and soils compaction testing. Total cost of construction was \$6.6 million.

Sewer Replacement and Prop. 1B Paving Projects (2008), City of Ferndale, California: Staff Engineer for the replacement of ± 50 linear feet of 6-inch sanitary sewer main including replacement of one manhole, and asphaltic concrete overlay of $\pm 7,800$ linear feet of city streets. Experience included preparation of construction contract documents, specifications, drawings and cost estimate, bidding assistance, and construction management. Cost of construction was \$337k.

Waterfront Drive Extension, City of Eureka, California (2008-2006): Staff Engineer for the realignment of 400-linear feet of existing two lane asphalt roadway and sidewalks, 1.4-miles of new two lane asphalt roadway with sidewalk and Class II bike lanes, and 1.1-miles of new Class I multi-use recreational trail. The project included relocation of various existing utilities, relocation of 1,430-linear feet of existing NCRA railroad tracks, new railroad crossings, new tidal wetlands and bioremediation swales, new stormwater drainage facilities, new intersections, and retaining walls. Experience included roadway geometry design and calculations, stormwater drainage study, preparation of maps and figures to assist environmental planning process, preparation of construction drawings, client coordination, and coordination with public agencies. This project was not constructed.

Pahrump Water Improvement Projects, Utilities Inc. of Central Nevada (2007): Project Engineer for the design of 24,000 linear feet of 8", 12", and 14" PVC water transmission mains and appurtenances including mainline valves, fire hydrant assemblies, and service assemblies. Experience included pipeline design, management of design team, and preparation of construction drawings.

Wastewater Treatment Facility 2004 Expansion Project, City of Fortuna, California (2007): Staff Engineer for the construction management of the City's wastewater treatment facility expansion project. The project consisted of headworks and secondary treatment expansion and a new solids handling facility including anaerobic digestion, cogeneration, and dewatering components. Experience included assistance with project submittal review and construction observation. Cost of construction was \$11 million.

Mad River Parallel Pipeline, City of Eureka, California (2006-2003): Design team member, head construction observer, construction management and materials testing for the design and construction of water transmission mains, valves, and valve structures including 5,100 linear feet of 24-inch ductile iron pipe completed in 2006, 5,600 linear feet of 18-inch ductile iron pipe completed in 2004, and 26,900 linear feet of 28-inch high density polyethylene pipe completed in 2003. Experience included pipeline design and calculations, preparation of construction drawings, full-time construction observation, concrete testing, soil compaction testing, sampling of water pumped from trenches for compliance with Regional Water Quality Control Board discharge requirements, submittal review, pay request review, client coordination, and preparation of record drawings.

Clearwell and Backwash Water Recycling Project, Brooktrails Township Community Services District, California (2006): Project Engineer for the relocation of an existing 50,000-gallon welded steel clearwell tank, conversion of the existing clearwell tank to a chlorine contact basin, design of a new 160,000-gallon steel clearwell tank, utility design, and design of backwash water recovery ponds and



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outlet structures. Experience included clearwell design, backwash water recovery pond design, site layout and grading design, preparation of construction drawings, client coordination, and bidding assistance. Cost of construction was \$1.2 million.

Eureka High School Gymnasium Phase 1A Construction, Eureka, California (2005): Design team member for the estimated \$12 million project which included demolition of the existing gymnasium and construction of a new gymnasium. Experience included site layout and grading design; water, sewer and storm-drainage utility design; emergency vehicular and ADA accessibility design; preparation of demolition, grading, drainage, utilities, and paving plans; and coordination with design team members and public agencies. This project has not been constructed.

H Street Sewer Basin Rehab, City of Eureka, California (2003): Design team member and head construction observer for the lining of 2,900 linear feet of 6-inch vitrified clay pipe and 800 linear feet of 8-inch vitrified clay pipe with similar size polyvinyl chloride pipe using fold and reform trenchless technologies, and the rehabilitation of manholes using epoxy coating. Experience included sanitary sewer inflow and infiltration studies; preparation of construction drawings; bidding assistance; full-time construction observation; submittal and pay request review; client coordination; and preparation of record drawings. Cost of construction was \$300,000. Mr. Hall received special thanks from the City of Eureka for his support on this project.

MISCELLANEOUS PROJECTS:

Project Engineer and design team member for various residential subdivisions, commercial developments, parking lots, and constructed wetlands, including McCabe Subdivision, McKinleyville, California (2006); Yurok Indian Housing Authority Residential Site Developments (2006 & 2005) and Office Parking Lot Improvement Plans (2005); Davlin and Diehl Minor Subdivision, Crescent City, California (2005); Hunter Mini-Storage, McKinleyville, California (2005); Roger Johnson Minor Subdivision, McKinleyville, California (2005); Blue Lake Rancheria Parking Lot Addition, Blue Lake, California (2004); Turner Subdivision, McKinleyville, California (2003); Fay Slough Wildlife Area Tidal Restoration, Eureka, California (2002).

Materials testing on various projects, including concrete testing for Yurok Indian Housing Authority Residential Site Developments (2007); concrete and compaction testing for the City of Eureka Mad River Parallel Pipeline Project, Eureka, California (2006, 2004, & 2003); concrete and compaction testing for the Southern Humboldt Senior Care Apartments, Garberville, California (2004); concrete testing for Brooktrails Township Community Services District Clearwell and Backwash Water Recycling Project, Willits, California (2004); concrete and compaction testing for the Manila Dunes Recreational Trail and Access Project, Manila, California (2003); concrete testing for Brookings Jr. High School and High School Gymnasium Projects, Brookings, Oregon (2002).

Various designs, reports and studies, including a water distribution study for the City of Etna, California (2003); a preliminary onsite wastewater treatment system design for Bear River Casino, Humboldt County (2003); a feasibility study for wastewater collection and treatment for the town of Laytonville, California (2001); an ADA accessibility study for the Mad River Hospital, Arcata, California (2001); and groundwater level monitoring, percolation testing, and design of various residential onsite wastewater treatment systems.



AFFILIATIONS:

- American Society of Civil Engineers, Associate Member
- Engineers Without Borders, Professional Member, Local Chapter Secretary

PROFESSIONAL SEMINARS AND WORKSHOPS:

- Track-Out: Constructions Most Common and Costly BMP Violation, 2011
- Best Practices in Manufacturing and Placement of Rubberized Hot Mix Asphalt, 2011.
- FEMA Elevation Certificate Workshop, 2009.
- Consulting Engineers and Land Surveyor of California Future Leaders Level 1, 2007.
- Tricks, Traps, and Ploys used in Construction Scheduling and Delay Claims in California, 2006.
- Design and Installation of Buried Pipes, 2004.
- Land Desktop Release 3: Customer Application Workshop, 2003.
- Working Together for Successful Stormwater Management: A Workshop for Clean Water and Phase 2 Stormwater Compliance, 2002.

CERTIFICATES:

- Qualified SWPPP Developer (QSD) and Qualified SWPPP Practitioner (QSP), Certificate #00371 Expires 1/28/2013.
- National Flood Insurance Program FEMA Elevation Certificate, 2009.
- Radiation Safety and Use of Nuclear Gauges, 2003 & 2007.
- Radiation Safety Officer for Nuclear Gauges, 2003.