

Statement of Qualifications City of Rancho Palos Verdes Approved "On-Call" List

June 15, 2015



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City of Rancho Palos Verdes

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PUBLIC WORKS DEPARTMENT



Prepared for:

City of Rancho Palos Verdes

30940 Hawthorne Boulevard

Rancho Palos Verdes, CA 90275-5391

Prepared by:

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June 12, 2015

Ms. Pam Mitchell
Administrative Staff Assistant
30940 Hawthorne Boulevard
Rancho Palos Verdes, CA 90275-5391

**Subject: Statement of Qualifications and Rate Sheet for City of Rancho Palos Verdes
Approved "On-Call" Consultant List**

Dear Ms. Mitchell:

HELIX Environmental Planning, Inc. (HELIX) has been providing environmental consulting services to the City of Rancho Palos Verdes (City) for more than 16 years and, with the enclosed submittal, we hope that we will be able to continue this working relationship into the future.

Pursuant to your letter dated May 28, 2015, HELIX is submitting our Statement of Qualifications (SOQ), including our rate sheet, for your consideration. As described in the SOQ, HELIX has extensive experience providing on-call and as-needed environmental services to local governments and other public agencies throughout southern California. With a staff of more than 119 environmental project managers, planners, biologists, archaeologists, air quality and noise specialists, landscape architects, habitat restoration specialists, geographic information systems (GIS) specialists, technical editors, and support staff, located in Los Angeles, Orange, Riverside, San Diego and Sacramento counties, we have the breadth and depth of expert resources necessary to support the City through an on-call agreement.

As Vice President of HELIX, I have the authority to commit our firm's resources to the City, and I will ensure that we provide responsive, high-quality service throughout the life of our on-call agreement. Please contact me (619.462.1515 ext. 214; TammyC@helixepi.com) if you would like any additional information.

Sincerely,

A handwritten signature in blue ink that reads "Tamara S. Ching".

Tamara S. Ching
Vice President, Planning Division Manager

Distribution: One copy of HELIX's SOQ and Rate Sheet



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1. Profile

HELIX Environmental Planning, Inc. (HELIX) is a leader in the provision of environmental consulting and related services to local government and public agencies throughout southern California. We have been providing environmental consulting services to the City of Rancho Palos Verdes for more than half of our firm's 24-year history.



HELIX is headquartered in La Mesa (San Diego County), with offices in Irvine, Riverside and Folsom, and additional employees located in Los Angeles County. Our staff includes 119 employees, of which 67 are professional staff specializing in environmental compliance, including California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance, as well as technical studies, planning, permitting and mitigation monitoring associated with biological resources, cultural resources, air quality, greenhouse gases (GHGs), noise, habitat restoration, and visual resources. In addition, our staff includes specialists in the areas of landscape design, native habitat restoration construction, and arborist services. HELIX staff includes 26 environmental planners, 20 biologists and regulatory specialists, 9 archaeologists, 4 landscape architects/technicians, 4 Geographic Information Systems (GIS) specialists, and 4 acoustical/air quality specialists.

HELIX's environmental planners have prepared CEQA/NEPA documents for a broad range of public projects, including local roadways improvements, Caltrans local assistance projects, bicycle and pedestrian facilities, storm water facilities/maintenance programs, public buildings, parks/recreational facilities, water and sewer facilities, solid waste facilities, and emergency maintenance actions. Private sector project experience includes residential, commercial, private recreation/entertainment and industrial development. CEQA/NEPA documents prepared by HELIX include Categorical Exclusions and Exemptions, Preliminary Environmental Assessment Reports (PEARs), Environmental Assessments (EAs), Findings of No Significant Impact (FONSIs), Environmental Impact Statements (EISs), Initial Studies (ISs) with Negative Declarations (NDs) or Mitigated Negative Declarations (MNDs), Environmental Impact Reports (EIRs), and joint CEQA/NEPA documents.

HELIX excels at navigating through local, state, and federal regulatory requirements, including CEQA, NEPA, federal Clean Water Act (CWA), California Fish and Game Code, state and federal Clean Air Acts, state and federal Endangered Species Acts (ESAs), Migratory Bird Treaty Act, California Coastal Act, and local requirements, and has provided permitting assistance to local governments throughout southern California. HELIX has developed permit application packages for a wide variety of public infrastructure projects, including CWA Section 404 permits and Section 401 Certifications, as well as Streambed Alteration Agreements pursuant to the California Fish and Game Code. We provide compliance services associated with the state and federal ESAs, including negotiation of authorizations pursuant to Sections 7 and 10(a) of the federal ESA and Section 2081 of the California Fish and Game Code. We also have prepared and processed Coastal Development Permit applications through local governments, as well as directly with the Coastal Commission. HELIX staff have made presentations to the Coastal Commissioners at public meetings and have prepared federal Coastal Consistency Determinations and Coastal Consistency Certifications for projects with federal funding and/or that require federal agency approval.

2. Experience and Expertise

We understand that the consultant(s) selected to provide environmental services to the City should demonstrate strong experience and expertise in the following areas:

- On-call/as-needed services to local governments and public agencies
- Public facilities experience
- CEQA/NEPA compliance expertise
- Technical analysis expertise
- Understanding of the as-needed/on-call role

As demonstrated below, the HELIX team possesses outstanding experience and expertise in each of these critical areas.

2.1 On-Call/As-Needed Services to Local Governments and Public Agencies

HELIX has a successful track record providing on-call/as-needed environmental services to local government and public agency clients, including a number of projects completed for the City of Rancho Palos Verdes. Over the years, HELIX has provided on-call/as-needed services to more than 30 public agencies. Our success is attributed to our ability to be responsive and provide high-quality service on multiple concurrent projects. As shown in Table 1 on the following page, HELIX has repeatedly been awarded consecutive on-call/as-needed contracts by local government and public agency clients, which indicates their high level of satisfaction with our services and work products.

2.2 Public Facilities Experience

The HELIX team has worked on a number of projects that reflect the types of projects for which the City is responsible, including facilities related to transportation, fire and police, libraries, recreation, sewer/water, and storm water. A description of representative projects follows.

Transportation

- **Palos Verdes Drive South Road Widening.** HELIX conducted cultural resources studies for the widening of Palos Verdes Drive South in Rancho Palos Verdes, to accommodate a bike path. Work included background research, field surveys and shovel test pits in a Native American village area. Work performed for the City of Rancho Palos Verdes.
- **Espola Road Improvement Project.** HELIX completed a CEQA EIR and NEPA Categorical Exclusion (with supporting technical studies) for this Caltrans local assistance project, to widen Espola Road to four lanes between Twin Peaks Road and Titan Way in the City of Poway. HELIX completed Section 106 cultural resources review, a biological technical report, jurisdictional delineation, and air quality, noise, aesthetics, and socioeconomics technical studies. Alternatives reviewed included roundabouts and three-lane or four-lane widening, with a variety of impacts to adjacent streetscapes (including oak trees), personal landscaping, native habitats (including wetlands) and residences. Work performed for the City of Poway.

Table 1. Selected HELIX On-Call/As-Needed Environmental Consultant Contracts

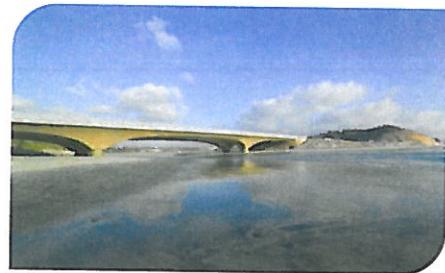
Client Name	Years Under Contract	No. of Task Orders	Amount Under Task Orders	Service Types
City of Rancho Palos Verdes	1998-2015	19	\$344,800	CEQA, Biological Resources, Permitting
County of Riverside, Economic Development Agency (EDA; formerly Department of Facilities Management)	2001-2015	2	\$76,850	CEQA/NEPA, Biological Resources, Cultural Resources, Noise, Air Quality
Riverside County Flood Control and Water Conservation District	2009-2015	10	\$464,000	CEQA/NEPA, Biological Resources, Cultural Resources, Noise, Air Quality
City of Riverside Public Utilities Department (PUD)	2001-2015	13	\$424,000	CEQA/NEPA, Biological Resources, Cultural Resources, Noise, Air Quality, Landscape Architecture
County of San Bernardino Department of Public Works (DPW) and San Bernardino County Flood Control District	2013-2016	2	\$100,897	CEQA/NEPA, Biological Resources, Cultural Resources, Regulatory Permitting
County of San Bernardino Special Districts Department	2007-2011	3	\$75,402	Landscape Architecture
Eastern Municipal Water District (EMWD)	2013-Present	1	\$15,500	
	2009-2015	19	\$1,123,000	CEQA/NEPA, Biological Resources, Permitting, Habitat Management Planning, Restoration Planning
City of Oceanside Water Utilities Department	2013-Present	20	\$60,000	CEQA Documentation and Biological Resources
City of San Diego, Engineering & Capital Projects	2010-2016	28	\$1,518,643	CEQA/NEPA, Air Quality, Biological Resources, Cultural Resources, Noise
Padre Dam Municipal Water District	2011-2015	23	\$372,000	CEQA, CEQA-Plus, Biological Resources, Cultural Resources, Hazardous Materials
The Metropolitan Water District of Southern California	1996-2015	> 100	> \$2,500,000	CEQA/NEPA, Biological Resources, Air Quality, Noise, Cultural Resources, Restoration
City of San Diego Metropolitan Wastewater Department / PUD (Environmental)	2007-2013	38	\$771,559	Biological Resources, Cultural Resources, Paleontological Resources, Noise, Restoration Planning and Implementation
City of San Diego Transportation & Storm Water Department	2014-2017	20	\$725,000	CEQA, Permitting, Biological Resources, Cultural Resources, Noise, Restoration Planning and Implementation, Mitigation Monitoring
City of San Diego PUD (Biology)	2012-2017	22	\$827,629	Biological Resources, Noise, Restoration Planning and Implementation

Table 1. Selected HELIX On-Call/As-Needed Environmental Consultant Contracts (cont.)

Client Name	Years Under Contract	No. of Task Orders	Amount Under Task Orders	Service Types
City of San Diego Water Department CIP	2000-2005	13	\$540,000	CEQA/NEPA, Biological Resources, Cultural Resources, Paleontological Resources
City of San Diego Water Department Operations	2001-2004	19	\$115,000	Biological Resources, Permitting, Restoration Planning and Implementation
City of San Diego Park and Recreation Department	2012-2015	10	\$185,868	Biological Resources, Cultural Resources, Mitigation Monitoring
County of San Diego Parks and Recreation Department	2013-2016	14	\$1,131,195	Grant applications and habitat restoration planning, implementation and maintenance
San Diego County Water Authority	2001-2013	12	\$1,593,000	CEQA/NEPA, Biological Resources, Permitting, Noise, Air Quality
Metropolitan Transit Development Board (MTDB)/SANDAG	1999-2008	> 20	\$4,000,000	CEQA/NEPA, Biological Resources, Cultural Resources, Noise, Air Quality, Traffic, Permitting, Habitat Management Planning, Restoration Planning
California Department of Transportation	2009-2015	5	\$2,201,862	CEQA/NEPA, Community Impacts, Visual, Public Outreach, Other Services
University of California, San Diego	1999-2015	> 50	> \$2,000,000	CEQA/NEPA, Biological Resources, Paleontological Resources, Noise, Air Quality/GHG, Habitat Management, Restoration

Transportation (cont.)

- North Torrey Pines Road Bridge.** This project involved the demolition and reconstruction of the existing bridge that spans the Los Peñasquitos Lagoon. HELIX prepared an MND, coordinated regulatory permitting, and is currently implementing habitat restoration to mitigate project impacts on biological resources. Sensitive issues were related to the proximity of the bridge to the Los Peñasquitos Lagoon and the Torrey Pines State Park and Reserve. In addition to being a popular recreation area, the state park and lagoon include nesting areas for sensitive wetland bird species. To reduce potential impacts, HELIX worked with the project engineers and state and federal wildlife agencies regarding: (1) seasonal limitations and barrier locations to avoid noise impacts on sensitive birds, (2) restoration of disturbed areas, (3) bridge design to help assure that the lagoon mouth remains open, and (4) off-site habitat restoration to offset permanent impacts on coastal sage scrub. Other major issues addressed during the environmental compliance process included aesthetics and traffic. HELIX developed a plant palette for disturbed slopes to provide partial compensation for impacts to coastal sage scrub. In addition, the firm devised and implemented a restoration plan in a portion of the Torrey

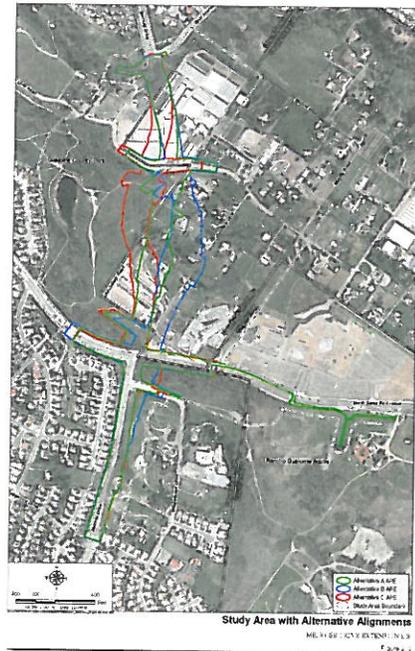


Pines Reserve to restore coastal sage scrub to a disturbed area. HELIX coordinated the successful acquisition of the following permits and authorizations: Coastal Development Permit, CWA Section 404 permit, CWA Section 401 Water Quality Certification, ESA Section 7 Consultation, Department of Transportation Section 4F compliance, California Fish and Game Code Section 1602 Streambed Alteration Agreement and Temporary Use Permit. Work was performed for the City of San Diego.

- **San Diego Bicycle Master Plan Update.** HELIX prepared a Program EIR for an update to the City of San Diego's Bicycle Master Plan. The Update more than doubles the number of miles of bicycle facilities and increases the total length of bicycle facilities to 1,090 miles. It also enhances bicycle support facilities, such as bicycle parking and storage, and promotes education and awareness of bicycling opportunities in the City of San Diego. HELIX worked closely with City of San Diego staff to create an approach to the Program EIR that was tailored to minimize the cost of the document, due to limited funding, while at the same time maximize the utility of the Program EIR for the future implementation of the bicycle facilities included in the Update. HELIX's work on the Program EIR was recognized by the San Diego Chapter of the American Planning Association. The Update and Program EIR were given the Association's *Transportation Planning Award* in 2015. Work performed for the City of San Diego.



- **Melrose Drive Extension.** HELIX has completed a number of tasks for the City of Oceanside relative to the City of Oceanside's proposal to construct the last 3,000 feet of a key four-lane roadway in the northern portion of San Diego County. As the proposed new roadway alignment passed through unincorporated land, the EIR evaluated the potential impacts using both the County of San Diego's and City of Oceanside's significance thresholds. The roadway passes through a portion of the County of San Diego that possesses a number of sensitive environmental resources, including a regional park (Guajome Park), a major creek, active agriculture, and rural homes. HELIX organized and hosted several community meetings to explain the project and receive public input prior to preparing the EIR. In addition, HELIX met with the County of San Diego's Parks and Recreation Department to find ways to compensate for potential encroachment into the regional park, including land swaps and special roadway design. In addition to preparing the EIR, HELIX is currently working with the City of Oceanside and the project engineer to complete final design of the roadway. This work will include noise barrier location and design, developing biological mitigation, including wetland restoration and/or creation, and final design of an equestrian trail paralleling the roadway. HELIX is also taking the lead on negotiating with the County of San Diego Parks and Recreation Department to identify suitable land to compensate for the roadway



encroachment into Guajome Park. Lastly, HELIX is processing wetland permits for the project, including a 404 Permit from the U.S. Army Corps of Engineers (USACE), 401 Certification from the California Regional Water Quality Control Board (RWQCB), and Streambed Alteration Agreement from the California Department of Fish and Wildlife (CDFW). Work performed for the City of Oceanside.

- **University Avenue Mobility Plan.** HELIX prepared an EIR and provided support for a NEPA Categorical Exclusion for the University Avenue Mobility Plan. The EIR and Categorical Exclusion addressed the implementation of multi-modal improvements identified in a mobility plan prepared for the University Avenue corridor, between Florida Street and Boundary Street, within the San Diego community of North Park. Major project features included conversion of the outside lane on University Avenue to a dedicated, bus-only lane, raised medians, curb extensions, enhanced pedestrian crosswalks, and consolidation of transit stops. The overall objectives of the plan were to improve mobility for pedestrians and transit users; improve safety for pedestrians, bicycles, and motorized traffic; reduce automobile traffic trips; and promote sustainability of mixed use and commercial development. A major focus of the EIR was the effect that conversion of automobile lanes to bus-only lanes would have on traffic circulation within surrounding neighborhoods. A detailed traffic study was prepared to evaluate traffic impacts. Impacts of the loss of street parking on surrounding neighborhoods, as well as merchants, were also considered. Work performed for the City of San Diego.

- **SR-76 Improvement Project.** HELIX is in the second phase of construction monitoring for the State Route (SR-) 76 East Segment road improvements project in the Fallbrook and Bonsall areas of northern San Diego County. Phase 1 construction involved the SR-76/ Interstate 15 (I-15) Interchange; this work was conducted between October 2012 and the summer of 2013. Phase 2 construction involves widening, realignment, and improvements to the roadway between South Mission Road and I-15 to construct it as a four-lane highway.



Work on Phase 2 began in November 2014 and is expected to take approximately three years to complete. The SR-76 East Segment project is in an area that is quite sensitive in terms of cultural resources and has a number of cultural resources identified in ESAs. In particular, the SR-76/I-15 Interchange is in proximity to known significant cultural resources that are of great importance to the Luiseño people. The San Luis Rey River corridor is of cultural importance, in addition to the numerous archaeological resources (both historic and prehistoric) in the area. Additionally, given the project's location in proximity to the river, much of the project is in alluvial soils in which there is a strong potential for buried cultural resources. HELIX archaeological monitors are present to observe construction-related activities within and adjacent to all cultural ESAs, including activities related to biological and other environmental mitigation issues, such as the placement of wildlife exclusion fencing. They work closely with Caltrans field personnel, the construction contractor, and Native American monitors. HELIX coordinates with Caltrans Environmental Branch personnel, including provision of weekly reports to the staff archaeologist for the project. To date, no previously unrecorded cultural resources have been identified, and no adverse impacts to cultural resources have occurred. Work performed for Caltrans District 11.

- **Torrance Transit Park and Ride Regional Terminal Project.** HELIX is providing biological resources support services for the Torrance Transit Park and Ride Regional Terminal Project planned in the City of Torrance, Los Angeles County. HELIX conducted a general biological survey, vegetation mapping, rare plant survey, formal jurisdictional delineation, vernal pool assessment, fairy shrimp surveys, and preparation of a biological technical report and biological resources section of the IS/MND. Future tasks include environmental compliance during construction and implementation of a tarweed mitigation plan. The City of Torrance is planning to develop a new regional transit center to serve the community. The project site is currently vacant. Prior to the year 2000, the site supported an industrial facility ("Pacific Plate and Glass") with buildings and parking lots. HELIX is acting as a subconsultant to the City of Torrance's legal counsel, Rutan & Tucker, LLP.

- **I-10/Grove Avenue Interchange and Grove Avenue Corridor Projects.** HELIX is providing biological resources support services for the I-10 Freeway at Fourth Street/Grove Avenue Interchange Project and Grove Avenue Corridor Project proposed in the City of Ontario in San Bernardino County. Tasks completed include general biological survey, vegetation mapping, jurisdictional delineation, and tree inventory. Two Natural Environmental Study Minimal Impact (NESMI) reports and jurisdictional delineation reports were prepared. Future tasks include obtaining 404, 401, and 1602 permits from regulatory agencies. The project calls for the redesign and rebuilding of the interchange and the widening of the Grove Avenue Corridor. The project requires coordination and environmental review with Caltrans District 8. Work performed for Parsons Transportation Group and the City of Ontario.



- **Lonestar Mitigation.** HELIX's Environmental Construction Group was a subcontractor for this approximately 30-acre native grassland restoration site. Work included upgrade of an existing irrigation system per specification provided by Caltrans staff and installation of approximately 30,000 individual native grasses. Maintenance activities included irrigation, as well as control and removal of non-native plant material in an effort to reduce competition for newly installed grasses. Work performed for ABC Construction and Caltrans District 11.
- **Dean Mitigation Site.** HELIX's Environmental Construction Group was a subcontractor for this approximately 20-acre native habitat restoration site. Project activities included removal of accumulated biomass material from the project site in anticipation of upcoming project activities. Work involved coordination with Caltrans staff in relation to site restrictions for nesting birds. Additional work included focused herbicide application to control emerging weed species. Work performed for ABC Construction and Caltrans District 11.

Fire and Police

- **Riverside County Fire Department Administrative Headquarters and Trumble Fire Station.** HELIX prepared an IS/MND to evaluate the potential impacts associated with the construction and operation of the Riverside County Fire Department's Administrative Headquarters and

Trumble Fire Station. Major environmental issues included archaeological and biological resources, noise, and traffic. Work performed for the County of Riverside Department of Facilities Management.

- **Cajalco Fire Station and Western Municipal Water District's Operation Center Improvements.** HELIX prepared an IS for the construction and operation of a new Cajalco Fire Station, as well as new operations and shop buildings at Western Municipal Water District's (WMWD's) Operations Center. The project also includes the installation of a 15,000-gallons-per-day package wastewater treatment plant or, as an alternative, the construction of a lift station and force main; removal of a subsurface septic system; and installation of a traffic signal at the entrance to WMWD's Operations Center. Work performed for the County of Riverside Department of Facilities Management.



- **El Cajon Public Safety Center.** HELIX prepared an EIR for construction and operation of a five-story, 115,689-square-foot public safety center and three-level parking structure on 5.7 acres adjacent to City Hall in the City of El Cajon (eastern San Diego County). Major issues included land use, transportation/circulation/access, geology and soils, aesthetics, hydrology and water quality, noise, air quality, hazards and hazardous materials, cultural resources, paleontology, public utilities, and recreation. Work performed for the City of El Cajon.



Libraries

- **Borrego Springs Community Library.** As part of an as-needed contract and ongoing task order for the County of San Diego Department of General Services (DGS), HELIX is providing environmental planning services for the development of a new library and park on approximately 17 acres in the unincorporated community of Borrego Springs in San Diego County. Services include CEQA documentation and provision of the air quality, GHG, biology, cultural resources, transportation, hazardous materials, and hydrology/water quality technical studies, and preparation of the IS/MND. Biological resources tasks include general biological survey, vegetation mapping, rare plant surveys, flat-tailed horned lizard surveys, burrowing owl surveys, preliminary jurisdictional delineation, and preparation of a biological technical report. Work performed for the County of San Diego DGS.

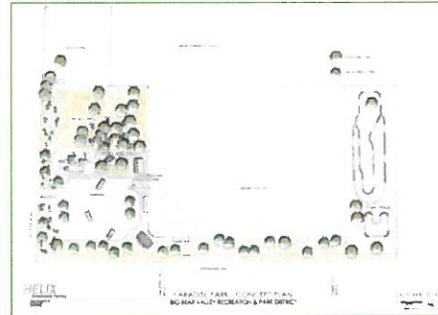


- **San Diego Central Library.** Our proposed Contract Manager, Bruce McIntyre, prepared an IS/MND for the new main library in downtown San Diego while with a previous employer. The new library is located in a nine-story building comprised of a total of 310,663 square feet. Until the full building is needed for the library (projected to be 30 years after construction), the unused space (63,441 square feet) would be used for office uses. The MND focused on traffic impacts associated with the project in its initial phase with office development and ultimate phase as a library. Work performed for the Centre City Development Corporation.

Recreation

- **Santee Town Center Park.** HELIX has been providing environmental planning, permitting, habitat restoration, and compliance services for a multi-phase park development project located along the San Diego River in the City of Santee (eastern San Diego County). Initial work included environmental constraints and planning efforts to support the development of a park master plan for the 70-acre Town Center Park. Primary issues include relocation of Woodglen Vista Creek, impacts from noise and lighting, water quality/hydrology, and indirect impacts to sensitive riparian habitat along the adjacent San Diego River. HELIX worked closely with the City of Santee, design team, and resource agencies to design an overall park master plan that featured a sensitive riparian corridor to accommodate flood control, habitat values, and recreational opportunities. HELIX obtained resource agency permits, prepared environmental documentation, and provided construction documents for riparian habitat restoration and also provided environmental planning services for specific facilities, including the Santee Town Center Park Aquatic/Gymnastic Center (prepared a biological study, cultural resources study, and IS/MND for the Aquatic/Gymnastic Center). HELIX also conducted the five-year monitoring of the wetland habitat restoration. Work performed for the City of Santee.
- 
- **Torrey Pines City Park.** HELIX prepared an IS/MND, biological technical report, and air quality and GHG technical report evaluating the potential environmental impacts of the proposed Torrey Pines General Development Plan, which consists of a conceptual/master plan for the Torrey Pines City Park. The approximately 57.3-acre project area is located along the City of San Diego coastline between La Jolla and Del Mar. The plan recommends general development options, including preserving and interpreting the park's prehistoric and historic resources; improving aircraft uses (fixed-wing aircraft, radio controlled aircraft, hang-glider, and para-glider) and the flight operations center; improving beach access and trails; restoring eroded bluffs; expanding public parking, picnic and viewing opportunities, and restroom facilities; and improving access for emergency vehicles. It includes an adjustment to the City of San Diego's habitat preserve boundary to remove disturbed areas and add areas of extant and restored native habitats, for a net increase in the size of the preserve. Major issues included biological resources, visual quality, and land use. Work performed for the City of San Diego.

- San Bernardino County Special Districts Department On-Call Landscape Architectural Services.** HELIX has provided on-call professional landscape architectural services to the San Bernardino County Special Districts Department (SDD) since 2007, under two separate contracts. Services provided have ranged from conceptual design, through design development and final design for park and recreation related projects throughout San Bernardino County. Most recently, HELIX developed a conceptual plan for Paradise Park in Big Bear, and then facilitated a workshop with the Big Bear Valley Recreation and Parks District Advisory Committee in January, 2015. Work performed for the County of San Bernardino SDD.



Storm Water

- San Ramon Drainage.** HELIX Landscape Architects provided construction documents and construction administration for the creation of a Diegan coastal sage scrub habitat area within the City of Rancho Palos Verdes. The goal of the approximately 3.0-acre restoration area is to create, restore, and enhance habitat values within a former landslide area. The restored habitat areas will enhance the overall value of Diegan coastal sage scrub habitat, which blanket the coastal bluffs and valleys within the City and are expected to approach the function and value of their pre-disturbed/enhanced states within five years. In addition to the preparation of planting plans and construction details (including plant palette, timing and type of planting, site preparation, planting ratios and a watering system), HELIX submitted a status report and as-built plans to the applicable regulatory agencies. An elaborate installation monitoring process, including pre-installation meetings, protection and monitoring of fencing the restoration area during construction, seeding, and a letter report was outlined and performed. Maintenance inspections, technical monitoring and reports have been prepared for one year and will be prepared for an additional four years to include assessments of the restoration effort. Success of the restoration is being measured relative to extant, nearby quality habitat according to species diversity, cover by weeds, and cover by native species. In addition to the technical measurements, HELIX has established permanent stations in the field for photo documentation to be used as part of all five annual monitoring reports. Work performed for the City of Rancho Palos Verdes.

- As-Needed Services for the San Diego Master Storm Water System Maintenance Program.** HELIX has a long history of providing environmental compliance support to the City of San Diego Transportation & Storm Water Department (T&SWD) that dates back to 2004 for its Master Storm Drain Maintenance Program (MMP), a long-range plan to guide the maintenance of approximately 35 miles of storm water facilities within the City of San Diego. In this capacity, HELIX provided or is providing four major services: (1) completion of biological inventories and wetland delineations, (2) preparation of the MMP document, (3) preparation of the Program EIR, and (4) coordination with state and federal resource agencies in an effort to obtain multi-year



permits to conduct maintenance pursuant to the MMP. HELIX's work began with a biological inventory of each of the facilities, including vegetation mapping and preliminary wetland delineations to serve as a baseline for the Program EIR and permits. HELIX prepared a Program EIR to address potential impacts from maintenance activities and establish a series of protocols and mitigation to minimize water quality impacts and compensate for biological impacts. Alternatives that minimize impacts to biological resources, including phasing vegetation removal, selective clearing and constructing bypass facilities are being addressed in the Program EIR. HELIX is currently assisting the City of San Diego with identification of wetland mitigation strategies and processing wetland permits for a variety of specific channel maintenance projects. HELIX completed a variety of task orders under this on-call contract, the majority of which were completed within the originally proposed task order budget and schedule. On a few of the task orders, HELIX processed a proposed scope and cost change prior to initiating work on the amended scope that was approved in advance by the client. HELIX also has worked closely with the T&SWD to plan and implement habitat restoration plans to provide the compensatory mitigation for the MMP. Our biologists have developed conceptual restoration plans and have coordinated to gain agency approval of the plans. Our landscape architects have developed construction drawings for bid documents and our team has provided support to the City of San Diego during the bid process. Currently, HELIX is providing mitigation monitoring support for the implementation of several major wetland restoration programs. HELIX is also providing construction monitoring support during the channel maintenance work. Our biologists, archaeologists, and noise monitors work in collaboration with T&SWD and City of San Diego Mitigation Monitoring Coordination staff to ensure compliance with the MMRP, permit conditions, and MMP requirements. We have also provided emergency services to T&SWD, including mitigation monitoring and reporting and permitting support as part of emergency channel maintenance work. Work performed for the City of San Diego.

- Bonita Canyon Erosion Repairs Project.** HELIX is currently providing restoration monitoring services for wetland and upland mitigation for the Bonita Canyon Erosion Repairs project. HELIX previously provided biological surveys, jurisdictional delineation, conceptual restoration plans, construction documents, and resource agency permitting for repairs to a large erosion control facility located in an open space canyon in the City of Chula Vista. Work performed for the City of Chula Vista.



- Elm Street Roadway/Drainage Improvements.** The proposed Elm Street Improvements Project was located in the City of Lake Elsinore near the southeast shore of Lake Elsinore, approximately 250 to 500 feet west of the San Jacinto River outlet to the Lake. HELIX provided biology and cultural resource studies for the improvement of this street to its ultimate width and construct drainage improvements (primarily rock-lined swales and asphalt concrete dikes) to address an existing flooding issue that allowed runoff to flow unimpeded onto the adjacent residential properties. Work performed for GHD, Inc.

- Campus Point Storm Drain Improvement Project.** HELIX provided biological studies for this project to remove corrugated metal pipes, replace them with reinforced concrete pipes, and potentially extend the new pipe on an easement down a vegetated slope, installing catch basins, cut-off walls, and a cleanout, inlet, headwall and energy dissipater, followed by filling the eroded areas and landscaping the slope. Work performed for GHD, Inc.

- On-Call Environmental Routine Maintenance Services for Transportation and Flood Control Facilities.**

HELIX is currently under contract with the County of San Bernardino to provide on-call services related to routine maintenance and emergency repairs. Services include preparation of environmental documents and permit applications leading to environmental clearance of transportation and flood control maintenance activities. Projects are anticipated to range from relatively simple projects that are exempt from CEQA to more complex EIRs. Environmental clearance for maintenance involves coordination with other County of San Bernardino departments in addition to federal, state, and local agencies, including U.S. Fish and Wildlife Service (USFWS), USACE, CDFW, RWQCB, and State Historic Preservation Office. Preparation of NEPA documentation is also provided for projects with a federal nexus. Work has included biological studies, cultural resources studies, CEQA exemption support, and permitting. Work performed for County of San Bernardino DPW and San Bernardino County Flood Control District.

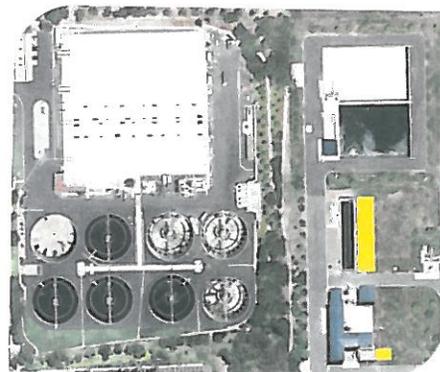


Sewer/Water

- Newhope-Placentia Trunk Sewer Replacement Project No. 2-72.** HELIX is providing environmental planning services for the Newhope-Placentia Trunk Sewer Replacement Project No. 2-72. This project will increase the capacity in the upper reach of the existing Newhope-Placentia Trunk Sewer located along State College Boulevard, in the cities of Fullerton and Anaheim, from the Yorba Linda Pump Station (Yorba Linda Blvd.) to Orangewood Avenue (approx. 34,800 feet of pipe), and for a portion of the Rolling Hills Sub-trunk Sewer (approx. 3,500 feet of pipe), located north of the Yorba Linda Pump Station, to provide the required capacity for current and future dry and wet weather flows. Anticipated environmental services include the preparation of air quality, GHG, biological, noise, and cultural resources technical studies; biological permitting; and a CEQA IS. Work performed for Lee & Ro, Inc. for Orange County Sanitation District.



- **Phase III Recycled Water Project.** HELIX prepared the CEQA-Plus environmental review for the State Water Resources Control Board (SWRCB) Clean Water State Revolving Fund (SRF) Program environmental review for the Carlsbad Municipal Water District (CMWD) Phase III Recycled Water Project. The project would expand CMWD's recycled water system to the north area of Carlsbad and begin initial expansion into neighboring water service agencies. Because the SRF Program is partially funded by the U.S. Environmental Protection Agency (USEPA), the project requires compliance not only with CEQA, but also with federal regulations such as the Clean Air Act, ESA, and the National Historic Preservation Act Section 106 as part of the SWRCB's CEQA-Plus requirements. HELIX is using the CMWD Phase III Recycled Water Project IS/MND that was previously adopted by the CMWD (that Ms. Dramko prepared while at another firm) as the basis of the CEQA-Plus submittal package, and is supplementing the IS/MND with documentation pertaining to the issues of air quality, biological resources, and cultural resources to comply with federal requirements. Work performed for CMWD.



- **Etiwanda Pipeline North Relining Project.** HELIX is currently preparing an EIR and associated technical studies for Etiwanda Pipeline North Relining Project in the cities of Fontana and Rancho Cucamonga. The project consists of relining approximately five miles of 144-inch-diameter pipeline. Surface activities would occur at a series of portals and existing access locations along the pipeline, and certain project activities would occur 24 hours per day, 7 days per week. The pipeline right-of-way



is located immediately adjacent to residential properties, with some excavation activities planned within approximately 20 feet of the residences. Because of the proximity of the pipeline to residences and the intensity of project activities, key project issues include elevated noise levels and emission of pollutants (including toxic air contaminants). HELIX prepared air quality, biological resources, GHG, and noise technical reports, and oversaw preparation of traffic and cultural resources technical reports by subconsultants. HELIX also prepared an IS and Notice of Preparation, which have allowed the EIR to be focused on the key project issues that have potential to result in significant environmental impacts. Due to the complexity of the project, it has been vital for HELIX to work closely with The Metropolitan Water District of Southern California's environmental, engineering, design, and construction management staff throughout the duration of the project. The project team worked together to develop equipment usage assumptions for impact modeling, and is continuing to coordinate to determine the feasibility of various potential mitigation measures. HELIX's senior acoustical specialist also is providing input into the construction specifications for the necessary noise barriers. Work performed for The Metropolitan Water District of Southern California.

- **Eastside Water Banking and Blending Project.** HELIX prepared an IS/MND for a water banking and blending project in the Antelope Valley region of unincorporated Los Angeles County, between the communities of Pearblossom and Little Rock, south of the City of Palmdale. The project includes the construction and operation of two 3-acre recharge basins, up to five extraction wells, and associated pipelines and other facilities. The project would allow the banking of surplus State Water Project (SWP) raw water for later use during drought conditions when SWP deliveries may be limited. HELIX also conducted biology work for the project, including focused surveys for desert tortoise, burrowing owls, and Mohave ground squirrel. Work performed for Antelope Valley-East Kern Water Agency.



- **Garfield Reservoir Replacement Project.** Working as a subcontractor to the engineering design lead, HELIX is preparing an IS/MND that evaluates the replacement of an existing 6.25-million-gallon reservoir with two new 3.25-million-gallon reservoirs and a relocated water operations yard in South Pasadena, Los Angeles County. The existing reservoir, built in 1924, is constructed of concrete and covered by a metal roof supported on a wood frame, and it needs to be replaced primarily for seismic safety reasons. To date, HELIX has overseen a historical resources analysis (which found that the reservoir was not eligible for the National Register of Historic Places or otherwise a significant historic resource in need of protection) and prepared the draft IS/MND. Work performed for City of South Pasadena.



- **San Bernardino Supply Line Replacement.** HELIX prepared an IS/MND, biological technical report, and air quality modeling evaluating the proposed replacement of 5,800 linear feet of an existing 42-inch underground potable water supply pipeline with approximately 6,600 linear feet of new 48-inch supply line located in the cities of Colton and Grand Terrace in San Bernardino County. HELIX and the City of Riverside PUD discussed potential strategies to expedite the CEQA compliance process.



Absent an applicable CEQA exemption, the City of Riverside PUD's preferred approach was to accelerate as much as possible the project's IS/MND. This was accomplished through rapid completion, by both HELIX and the City of Riverside, of each task. In addition, HELIX contacted potential responsible and trustee agencies and obtained their approval in writing for a shortened review. Following this coordination, HELIX obtained approval from the State Clearinghouse for a 20-day public review. As a result of these steps, the City of Riverside was able to approve both the Final MND and the project on August 10, 2010, only 70 days after HELIX received the project information and a notice to proceed. Work performed for the City of Riverside PUD.

- **Santa Ana River Trunk Sewer Replacement Project.** HELIX prepared/managed an IS/MND, mitigation monitoring program, cultural resources survey and technical report, and air quality and noise analyses for the construction of 3.7 miles of new 48-inch-diameter trunk sewer to replace the existing aging trunk sewers. HELIX biologists also conducted a literature review and database search for sensitive species known to occur within the project area, mapped vegetation, conducted a general botanical and zoological survey, reported on the delineation of jurisdictional waters, and provided a general biological resources assessment and issues report. HELIX led the successful effort to secure aquatic resource permits, including a 404 Nationwide Permit, 401 Water Quality Certification, 1602 Streambed Alteration Agreement, and federal ESA take authorization under the Multiple Species Habitat Conservation Plan (MSHCP). HELIX's responsibilities included close interaction with local, state and federal officials during all phases of the permitting process and negotiation of the terms and conditions of the permits, including the compensatory mitigation. Work performed for the City of Riverside Public Works Department.

- **Hemet/San Jacinto Integrated Recharge and Recovery Project.** HELIX prepared an EIR for a proposed project in western Riverside County that includes 35 acres of groundwater recharge basins in the San Jacinto River channel, as well as several groundwater monitoring and extraction wells. A potential second phase of the project would also include an approximately 8-mile-long water supply pipeline, two pump station upgrades, and up to 100 acres of recharge basins and more wells. The proposed project will provide seasonal and long-term groundwater storage. Supporting technical analysis included several years of focused San Bernardino kangaroo rat and rare plant surveys. HELIX also provided CWA and California Fish and Game Code permitting; support for consultations/negotiations with USFWS, Riverside County Flood Control and Water Conservation District, environmental advocacy groups, and the Western Riverside County Regional Conservation Authority; preparation of a Habitat Management Plan; and construction monitoring. Work performed for EMWD (multiple contracts).



2.3 CEQA/NEPA Compliance Expertise

HELIX has extensive experience in the preparation of environmental compliance documents for a wide range of public projects under the requirements of CEQA and NEPA. Types of documents that have been prepared by HELIX include:

- Categorical Exclusions/Exemptions
- EAs
- ISs
- FONSIs
- NDs and MNDs
- EIRs and EISs
- Joint CEQA/NEPA documents

HELIX prepares CEQA and NEPA public notices, conducts public scoping meetings, and makes presentations at public hearings. This expertise has been applied to important public projects, including major infrastructure projects, many of which have been highly controversial. HELIX staff members have prepared CEQA and NEPA documents for many types of public projects, including:

- New and improved local roadways, highways and bridges, including Caltrans local assistance projects
- Pedestrian and bicycle facilities
- Transportation planning documents, including circulation elements and bicycle or trail master plans
- Fire stations, libraries, correctional facilities, and other public buildings
- Drainage facilities and maintenance programs
- Water treatment facilities and storage and distribution systems
- Wastewater treatment and re-use facilities and sewer infrastructure
- Public transit stations
- Medical and educational facilities
- Solid waste transfer, disposal, and recycling facilities
- Mining projects and mine reclamation plans
- Electrical generation and transmission facilities
- Telecommunications facilities

2.4 Technical Analysis Expertise

HELIX has technical expertise in the following areas.

- **Biological Resources.** HELIX staff includes biologists with skills in the fields of resource management, botany, mammalogy, ornithology, herpetology, and wetland ecology. HELIX regularly conducts surveys for sensitive plant and animal species, biological baseline studies, wetland delineations, ecological research, construction monitoring, mitigation monitoring, resource management planning, and environmental impact assessments. Together with our subconsultants, HELIX has the expertise and, as applicable, USFWS and/or CDFW Scientific Collectors Permits and Memoranda of Understanding, for a wide range of federally and state-listed species. Our in-house certified arborists can assess the health of trees and provide recommendations.
- **Regulatory Assistance/Permitting.** HELIX has experience processing permits under the federal CWA, federal ESA, California Fish and Game Code, and the Coastal Act. Specifically, HELIX provides biological expertise in several areas of regulatory compliance, including Section 4(d) of the ESA; including the State Natural Community Conservation Planning process), Section 404 of the CWA, Sections 2081 and 1600 of the California Fish and Game Code, Sections 7 and 10(a) of the ESA, as well as local regulatory compliance.
- **Habitat Restoration.** HELIX biologists are experienced in the restoration, enhancement and maintenance of native habitats. HELIX is involved in all aspects of habitat restoration, including development of conceptual plans and preparation of construction drawings (plans, specifications, and estimates). HELIX's Environmental Construction Group installs restoration projects and

provides long-term restoration maintenance. HELIX has prepared habitat restoration projects for a wide variety of habitats, including riparian woodland, coastal sage scrub, and vernal pools, as well as for individual species. Typical restoration projects include preparation of conceptual and final restoration plans, construction documents, site preparation and installation with biological oversight, and long-term biological monitoring and preparation of annual reports.

- **Cultural Resource Management.** HELIX offers a full range of cultural resource management services, including archaeological studies, historic studies, historic structure assessments, Native American consultation and coordination, interpretative display design, and mitigation monitoring during construction. We help clients navigate the often complicated requirements of cultural resource laws and regulatory agencies at local, state, federal, and tribal levels to facilitate compliance and preservation of resources that are historically or culturally significant.
- **Air Quality/Greenhouse Gases/Climate Change.** HELIX provides a full range of air quality impact assessment and air quality permitting services. The firm's climate change services include GHG inventory analysis, GHG mitigation plan development, and climate change analysis, updated continually to comply with CEQA and NEPA requirements. HELIX uses the most current methodologies to calculate GHG emissions from vehicle activity, electricity use, natural gas consumption, and energy use associated with the transport and consumption of water. HELIX also determines a project's effects on climate change and provides guidance on how future projects will likely have to adapt to potential changes in the environment due to climate change. HELIX prepares assessments of toxic air emissions and resulting health risks at sensitive receptors using advanced toxic air emission and health risk assessment tools in accordance with the California Office of Environmental Health Hazard Assessments and USEPA guidelines.
- **Noise.** HELIX prepares technical studies that help our clients comply with applicable local, state, and federal environmental regulations, including local noise ordinances, CEQA, NEPA, and the state and federal ESAs. Most frequently, these studies focus on predicting transportation and construction equipment noise impacts on sensitive uses, such as residential developments or recreational areas. In addition to evaluating the impact of noise on humans, HELIX specializes in evaluating noise impacts on wildlife, especially rare and endangered species. We also offer monitoring services to ensure that specified noise level goals are achieved both during and after construction.
- **Aesthetics and Visual Analysis.** HELIX has extensive experience addressing aesthetics impacts, including degradation of scenic views, view blockage, and the related issues of light, glare, and shadow impacts. We prepare visual analyses in compliance with the guidelines promulgated by various local jurisdictions, Federal Highway Administration (FHWA), and the Bureau of Land Management. HELIX staff routinely determine viewsheds and key observation points, community values regarding views and architectural designs, and degrees of potential view interruption or degradation. We also have the ability to conduct shading studies and identify potential sources of light and glare. We have the software and experience needed to produce high-quality, accurate computer photo-simulations depicting existing and future views.

- **Landscape Architecture.** HELIX's Landscape Architecture Group works on a wide variety of project types and are involved in new and retrofit projects in all stages of planning and construction, from site analysis to concept plan, from permit processing to final construction documents, and from construction observations to as-built records. HELIX's Landscape Architects create detailed plans indicating grading and drainage, vegetation, pedestrian and vehicular access, efficient irrigation design, and other landscaping details and specifications, and they oversee landscape installation for maximum success. They also work closely with HELIX's Environmental Construction Group that specializes in the installation and maintenance of native habitat and low-water-use landscaping, and are able to consult with HELIX biologists during the design and implementation of native habitat restoration and creation projects. Having in-house landscape contractors aids HELIX's landscape architects in producing more accurate cost estimates and realistic construction documents.
- **Geographic Information Systems.** HELIX's GIS Group provides a wide range of conceptual design and mapping services that combine field data collection with the use of mobile Global Positioning System units and high-resolution digital aerial photographic coverage. GIS allows HELIX to provide precision mapping and analysis that can be project-specific or region-wide. Typical GIS services include data format conversion for use in other applications, aerial photograph interpretation, terrain modeling and analysis, 3D mapping, and spatial analysis. HELIX uses a variety of state-of-the-art GIS software to perform analysis and mapping to ensure clients receive the highest quality product available.

2.5 Understanding of the As-needed/On-call Role

HELIX is available to support the City of Rancho Palos Verdes on an as-needed basis by providing any tasks needed to complete the environmental process. We will serve as an extension of your staff, and can provide support to your environmental staff who would also perform compliance activities such as processing of environmental documents, or can provide all required services under the oversight of a City project manager. Our senior staff can provide strategic advice if requested, to assist City staff in navigating the environmental process as cost-effectively and efficiently as possible, while minimizing the risk of public controversy and litigation.

Our work approach is best described in three parts: (1) on-call/as-needed consulting services, (2) environmental compliance documentation, and (3) quality assurance. Our approach to each of these aspects is provided below.

On-Call/As-Needed Services

Based on our extensive experience providing on-call/as-needed environmental consulting services to a wide range of local government/public agencies throughout southern California, HELIX has an established procedure to efficiently develop a work plan for each project and to get the work underway as quickly as possible.

Our proposed Contract Manager, Bruce McIntyre, will serve as the primary point of contact for the City for each new task order. Upon receiving an inquiry from the City regarding a potential new task order, Mr. McIntyre will work quickly to identify a task order manager with the appropriate skills and experience as well as sufficient capacity to manage the task order in a responsive and efficient manner. He will consider billing rates when making task order assignments, using staff with lower billing rates to the extent appropriate based on the degree of complexity and potential for public controversy associated with the task.

Once selected, HELIX's Task Manager will work closely with City staff to ensure that we thoroughly understand the specific requirements for the task to be completed, and will provide advice to City staff regarding the work elements necessary to fulfill environmental requirements. Working with City staff and appropriate technical specialists, HELIX's Task Manager will prepare a task order proposal and work with City staff to refine the associated scope and fee.

Throughout the life of a task order, the Task Manager will maintain formal and informal communication with City staff to obtain needed project information, report on the preliminary findings of studies that are in progress, agree upon impact conclusions and mitigation, and provide progress updates.

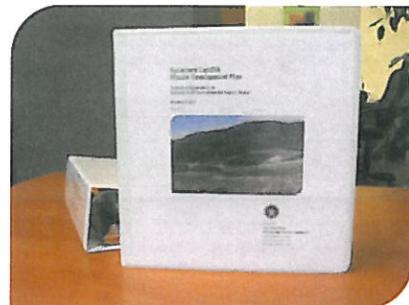
HELIX's Contract Manager and Task Manager will also stay in close coordination with all team members throughout the duration of each project to ensure that a quality work product is completed on time and within budget.

Environmental Compliance Documentation

At the start of task order, HELIX will work with City staff to ensure that we have identified the appropriate lead, responsible, and trustee agencies with potential jurisdiction or discretionary approval over the project. We will hold preliminary discussions regarding the probable environmental effects of the project to help refine the environmental scope of work. We will identify potential environmental constraints, permits, and other regulatory approvals that will likely be required, a preliminary schedule, and the type of CEQA/NEPA or other environmental compliance document(s) that we anticipate will be necessary.

We ensure that all of our team members are up to speed on the project and scope. For smaller projects, this will be accomplished through an in-house meeting between the Task Manager and his/her assigned specialists and support staff. For larger projects, a formal team meeting may be necessary, held with City staff. This kickoff meeting helps ensure that all team members understand communication protocols, are working from the same project description, and realize their role in the overall environmental compliance process.

As the project progresses toward its first screencheck submittal, HELIX's Task Manager will actively manage the environmental process to minimize the time and cost required to complete the CEQA documentation. HELIX's project management approach is designed to complete the CEQA process in an expeditious manner while simultaneously ensuring that CEQA documents and technical studies conform with the *State CEQA Guidelines* and City guidelines.



As the analyses of potential project impacts progress, we will alert City staff if our team determines that a project may have a significant effect that has not been previously discussed. We will also share other important information that arises out of the technical analysis and that could affect a project's viability. It is a HELIX goal that our clients are never surprised to find out about previously undisclosed significant project impacts when they read one of our documents. In the event that a significant impact cannot feasibly be avoided through project design, we work with City staff to develop mitigation measures that are both effective and feasible to reduce or avoid environmental impacts.

Following City review of our work product, we will ensure that we address each comment. If there is a reason why we disagree with a requested edit or change, we discuss that with our client; we do not simply ignore the comment. We are always aware that the document we are preparing must reflect the independent judgment of the City. Once City staff is comfortable with the content of our work products, we will finalize them for public distribution or use by the decision-maker.

Quality Assurance

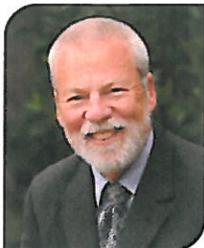
To ensure the high quality of both our analytical and documentation processes, HELIX has developed a comprehensive Quality Assurance (QA) Program, the fundamental objectives of which are to ensure not only that each work product fulfills a task's scope, but also meets the specific needs of the client. Our attention to quality assurance allows our clients to focus their attention on the substance and conclusions of our documents, rather than typographic errors and formatting.

Our QA Program begins with our Task Manager personally reviewing each report prepared by HELIX. Technical reports from subconsultant team members are also reviewed with a careful eye to assure accuracy and appropriate focus. Once the Task Manager is satisfied with a report, each document is reviewed by a senior staff member to confirm the accuracy and comprehensiveness of the analysis, the validity of significance determinations, and the effectiveness of mitigation. In addition, documents are reviewed by our technical editing/production staff to eliminate typographical errors and format inconsistencies.

3. Key Staff

Bruce McIntyre, Contract Manager

Education: M.S., Biology; B.S., Zoology



Mr. McIntyre will serve as contract manager for the on-call/as-needed services contract and will be responsible for overall coordination and selection of staff to work on individual assignments. He has 30+ years of experience in environmental planning and oversees all aspects of the environmental process, from document preparation to overall process management. Throughout his career, Mr. McIntyre has authored and/or supervised the production of more than 100 EIRs, which have encompassed a variety of public project types, including roadways, fire and police facilities, libraries, and parks. In preparing the environmental documents, he has developed a wealth of experience in finding creative, workable solutions for a broad range of environmental impacts. As a part of his work, Mr. McIntyre has conducted a number of major public outreach efforts, which have involved formal presentations to groups of stakeholders, as well as facilitating citizen groups. In this capacity, he has demonstrated an ability to explain environmental issues, resolve conflicts, and build consensus. He has completed coastal development and biological resources permitting. Selected experience includes:

- City of Rancho Palos Verdes On-Call Environmental Consulting
- City of San Diego Engineering & Capital Projects Department As-Needed Environmental Planning Support Services
- San Diego Master Storm Water System Maintenance Program
- Georgia Street Bridge Rehabilitation
- North Torrey Pines Road Bridge Replacement
- Melrose Drive Extension
- Pamo Reservoir and Pipeline Project
- El Cajon Public Safety Center
- San Diego Main Library
- Borrego Library Expansion

Tamara S. Ching, Quality Assurance

Education: M.S., Administration; B.A. Social Ecology



Ms. Ching is HELIX's Vice President of Planning and a Senior Project Manager in the environmental planning field. Her responsibilities include the management of comprehensive environmental studies programs for transportation, water and wastewater, and other public and private development projects. Ms. Ching is knowledgeable of CEQA and NEPA. She has participated in all phases of the environmental review processes and is an effective strategist in the scoping of environmental services and the identification of creative approaches to address public/stakeholder concerns and cost-effective approaches for environmental compliance. She has been involved in determining the content and scope of environmental documents; coordinating document review by federal, state, and local agencies and the public; assisting lead agencies and private clients in meeting statutory or procedural requirements; planning, implementing and participating in public workshops, scoping meetings and hearings; and preparing final environmental documents. Ms. Ching has successfully managed on-call services contracts for City of Riverside EDA, City of San Diego, SANDAG,

Caltrans, County of San Diego, San Diego Unified Port District, the U.S. Navy, The Metropolitan Water District of Southern California, Otay Water District, USACE, U.S. Postal Service, and many others.

Selected experience includes:

- Palos Verdes Drive South Road Widening
- City of Rancho Palos Verdes On-Call Environmental Consulting
- Riverside Fire Department Administrative Headquarters and Trumble Fire Station
- Cajalco Fire Station and WMWD Operation Center Improvements
- San Diego Master Storm Water System Maintenance Program
- City of Chula Vista Source Reduction and Recycling Element
- I-5/Sorrento Valley Road Multi-modal Improvement Project
- Caltrans District 11 On-Call
- SR-94 Jamul Intersection Improvements
- SR-94 Express Lanes Project

Tim Belzman, M.C.P., Senior Environmental Project Manager

Education: Master of City Planning; B.S. Criminal Justice Administration



Mr. Belzman has 16 years of experience managing and preparing environmental compliance documents in accordance with CEQA and NEPA for public works projects (e.g., bridges, roads/highways, rail grade separations, bikeways, pedestrian paths, and multi-modal projects). He has a successful history working with various local, state, and federal agencies including the City of San Diego, SANDAG, Caltrans District 11, North County Transit District, Federal Transit Administration, FHWA, and General Services Administration. His professional experience includes the preparation of EIRs, ISs, MNDs, NDs, Addenda, and Notices of Exemptions under CEQA, as well as preparation of EISs, EAs, and Categorical Exclusions under NEPA. Mr. Belzman has worked on numerous public infrastructure and land development projects throughout San Diego County, and he has managed HELIX's as-needed environmental services contract for MTDB/SANDAG for 8 years. He has continued to manage HELIX's services as a subconsultant under several as-needed engineering/environmental contracts with SANDAG. Selected experience includes:

- University Avenue Mobility Study
- SR-94/Jamul Intersection Improvements
- Rancho Bernardo and Sabre Springs Transit Centers
- San Diego Bus Maintenance and Fueling Stations
- I-805 South Managed Lanes
- Encinitas Pedestrian Crossings
- San Diego Bicycle Master Plan
- Shoal Creek Pedestrian Crossing
- Santee Town Center Park Master Plan

Dennis Marcin, Senior Environmental Specialist

Education: B.S., Geology



Mr. Marcin is responsible for reviewing a broad range of technical reports and preparing corresponding sections of environmental documents. In particular, he has reviewed numerous drainage and hydrology technical reports, storm water management plans, and water quality technical reports, and has incorporated the results into EIRs and other CEQA documents. Mr. Marcin is well-versed in working with engineers and regulatory staff to ensure that project designs will meet applicable technical and environmental storm water standards, as well as in translating technical information into public documents, such as MNDs and EIRs. Selected experience includes:

- Santee Town Center Park Master Plan
- Melrose Drive Extension
- University Avenue Mobility Plan
- Espola Road Improvement Project
- Bear Valley/East Valley Parkway Improvements
- Lake Hodges Bike/Pedestrian Bridge
- El Cajon Public Safety Center
- Etiwanda Pipeline Relining
- Whitewater River/Colorado River Aqueduct Siphon Scour Protection, Mine Reclamation, and Cabazon Radial Gate
- Murrieta Recycled Water Facilities
- Pacific Gateway Cargo Center

Karl Osmundson, Principal Biologist

Education: B.S., Wildlife, Fish and Conservation Biology



Mr. Osmundson serves as a Biology Group Manager and Principal Biologist at HELIX. He has been conducting research and working as a biologist in the environmental field for 14 years. His current responsibilities include managing environmental documentation, overseeing permitting and mitigation programs, and providing senior technical support in the biological resources area. As a consulting biologist for projects requiring NEPA and CEQA compliance, he has conducted a variety of biological surveys and has prepared a wide range of biological analyses and reporting in support of IS/MNDs, EIRs, EAs, and EISs. He also has prepared opportunity and constraints analyses, due diligence investigations, vegetation and GIS mapping, biological technical reports, wetland delineations, alternatives analyses, regulatory compliance and permitting, resource management plans, habitat mitigation and monitoring plans, and restoration plans. Selected experience includes:

- Torrance Transit Park and Ride Regional Terminal Project
- I-10/Grove Avenue Interchange and Grove Avenue Corridor Projects
- Highland Base Line Road and Boulder Avenue Over City Creek Bridge Replacement Projects
- Malibu Fire Station 71 Modernization/Expansion Project
- Hollywood Water Quality Improvement Project
- Corte Madera Flood Control Project
- East Diamond Valley Lake Recycled Water Storage Pond Demonstration
- English Channel Flood Control Facility
- Carlsbad Phase III Recycled Water Project
- Carlsbad and CMWD Sewer, Water, and Recycled Water Master Plans

- Carlsbad Trails Master Plan
- Padre Dam Facilities Master Plan
- City of San Diego Public Utilities District As-Needed Biological Services

W. Larry Sward, M.S., Senior Biologist

Education: M.S., Biology, emphasis in Botany; B.S., Biology, concentration in Ecology



Mr. Sward has 30+ years of experience as a botanist and biologist in southern California. In his role as HELIX's senior technical specialist, he oversees restoration projects, wetland delineations, vegetation mapping, and rare plant studies, including the preparation of corresponding technical reports. He has a strong working knowledge of USACE and CDFW jurisdictional delineation requirements, and frequently teaches classes for other environmental professionals on behalf of the Wetland Training Institute. Selected experience includes:

- LAWA Madrona Marsh Riverside Fairy Shrimp Mitigation Plan
- Hemet/San Jacinto Integrated Recharge and Recovery Program
- Dufferin Avenue Main Replacement
- Whitewater River/Colorado River Aqueduct Siphon Scour Protection, Mine Reclamation, and Cabazon Radial Gate
- English Channel Flood Control Facility
- Arroyo Del Toro Channel Project
- Palm Springs MDP Line 41, Stage 3
- Whitewater River/Colorado River Aqueduct Siphon Scour Protection, Mine Reclamation and Cabazon Radial Gate
- Hemet/San Jacinto Integrated Recharge and Recovery Program
- Melrose Drive Extension
- Espola Road Improvement Project
- Santee Town Center Park Master Plan
- Mast Park Restoration
- San Diego Storm Water System Maintenance Program
- North Torrey Pines Road Bridge Replacement
- Lake Hodges Bike/Pedestrian Bridge

Rob Hogenauer, Biologist

Education: B.S., Biology, minor in Zoology



Mr. Hogenauer's biological field studies have been performed at various locales in Imperial, Riverside, San Bernardino, Los Angeles, and San Diego counties. He has been actively involved in numerous focused surveys for endangered species, including the least Bell's vireo, coastal California gnatcatcher, Quino checkerspot butterfly, fairy shrimp, desert tortoise, burrowing owl, and arroyo toad. He also has extensive experience managing and conducting construction monitoring and mitigation monitoring projects. Selected experience includes:

- Nuevo Road Project
- Chase Road School Project
- Perris Fire Department Administrative Headquarters
- Perris Romoland Channel
- Verbena Channel/Desert Hot Springs Master Drainage Plan

- Antelope Valley-East Kern Water Agency Eastside Water Banking and Blending Project
- Dufferin Avenue Main Replacement
- Hemet/San Jacinto Integrated Recharge and Recovery Program
- Santa Ana River Trunk Sewer
- Sun City Force Main
- Audie Murphy Ranch Recycled Water Supply Pipeline
- Sun City Force Main
- San Bernardino Transmission Main
- San Bernardino Supply Line Replacement

Mary Robbins-Wade, RPA, Director of Cultural Resources

Education: M.A., Anthropology; B.A., Anthropology; Registered Professional Archaeologist



Ms. Robbins-Wade has 30+ years of archaeological experience in southern California. She has extensive experience in both archaeological research and general environmental studies and has managed or participated in hundreds of projects under CEQA, as well as numerous archaeological studies under various federal jurisdictions, addressing Section 106 compliance and NEPA issues. She has an excellent relationship with the local Native American community and the Native American Heritage Commission. Selected experience includes:

- City of Vista As-Needed Cultural Resources Services
- SR-76 Monitoring
- I-8/SR-186 Interchange Improvements
- I-5/Genesee Interchange Improvements
- Bear Valley/East Valley Parkways Road Widening, Realignment, and Improvements
- SR-163/Friars Road Widening and Interchange Improvements
- Village Park Recycled Water
- South Santa Fe Storm Water Improvements
- Lake Wohlford Dam
- North/South District Interconnection System
- Pump Station 79 Force Main
- Cemetery Area Water Pipeline Replacement
- Buchanan Canyon Sewer Replacement
- Tecolote Canyon Natural Park Tierrasanta Trails
- Vista Sports Park

Charles Terry, Senior Acoustical Specialist

Education: B.S., Mechanical Engineering



Mr. Terry has 30+ years of experience in engineering and mechanical systems. His specialized experience in acoustical and mechanical engineering includes evaluation of noise from static and mobile sources and associated recommendations for design of interior and exterior noise-control solutions. He has prepared and conducted construction and operational noise planning and monitoring studies for both human and sensitive species noise impacts. Selected experience includes:

- Etiwanda Pipeline Relining
- San Bernardino Transmission Main

- Riverside Box Springs Feeder
- Sun City Force Main
- Whitewater River/Colorado River Aqueduct Siphon Scour Protection, Mine Reclamation, and Cabazon Radial Gate
- San Diego Storm Water System Maintenance
- SR-76/Pauma Reservation Road Widening Improvements
- Melrose Drive Extension
- Espola Road Improvement Project
- University Avenue Mobility Study
- Tenaja Pump Station
- North/South District Interconnection System
- Pipeline 3 Relining, Sweetwater Reservoir to Lower Otay Reservoir
- Pipelines 3 & 4 Relining, SR-52 to Lake Murray
- Ward Canyon Neighborhood Park

Victor Ortiz, Air Quality/Greenhouse Gas Specialist

Education: B.A., Earth and Environmental Sciences



Mr. Ortiz is an Air Quality/GHG Specialist with eight years of experience in environmental documentation and analysis consistent with CEQA and NEPA. He has prepared numerous air quality/GHG impact assessments that documented air pollutant emissions and concentrations related to various public infrastructure projects. He has a thorough understanding of the National and State Ambient Air Quality Standards, as well as the rules and regulations adopted by many local air districts. Selected experience includes:

- Santa Anita Stormwater Flood Management and Seismic Strengthening Project
- Los Angeles County Sanitation Districts, Clearwater Program
- Etiwanda Pipeline Relining
- Whitewater River/Colorado River Aqueduct Siphon Scour Protection, Mine Reclamation, and Cabazon Radial Gate
- Clinton Keith Road and I-215 Interchange Project
- SR-2 Freeway Terminus Improvement Project
- SR-18 Widening and Signalization
- SR-62 Widening
- Route 138 Widening and Signalization
- SR-94 Express Lanes
- Park to Playa Trail Project
- The Metropolitan Water District of Southern California On-Call Environmental Planning Services

Joanne M. Dramko, AICP, GISP, Principal Planner/Senior Technical Specialist

Education: M.S., Environmental Science and Management; B.A., Fine Arts; American Institute of Certified Planners



Ms. Dramko serves as an Environmental Planning Group Manager and a Senior Project Manager at HELIX. She has 15 years of experience involving the preparation of environmental reports under CEQA, CEQA-Plus, and NEPA for water/wastewater/recycled water projects, utility projects, transportation projects, and parks. Ms. Dramko has extensive experience preparing Climate Action Plans, Energy Action Plans, GHG analyses and sustainable energy assessments. In addition, she is

an accredited member of the American Institute of Certified Planners (AICP) and is a certified GIS Professional (GISP). Selected experience includes:

- OCSD Newhope-Placentia Project No. 2-72
- Carlsbad Phase III Recycled Water Project IS/MND
- Carlsbad Sewer Master Plan and CMWD Water and Recycled Water Master Plans
- Carlsbad Trails Master Plan
- Reyes Adobe Road/Highway 101 Interchange Improvement Project
- Etiwanda Pipeline Relining
- Western Riverside Council of Governments Energy Action Plans
- County of Riverside Climate Action Plan
- Padre Dam Facilities Master Plan
- Otay Water District Water Resources Master Plan
- Olivenhain Municipal Water District Village Park Recycled Water Project
- University Avenue Mobility Plan EIR
- SR-163/Friars Road Interchange Improvement Project
- UCSD On-Call Environmental Services

Sheryl Horn, Environmental Project Manager

Education: B.S., Environmental Science



Ms. Horn's responsibilities will include project management for individual assignments. She has experience preparing a variety of environmental documents in compliance with both CEQA and NEPA. Her experience has included a wide range of projects in the public and private sector, including fire stations, service yards, retail centers, commercial centers, industrial warehouses, residential subdivisions, Specific Plans, water infrastructure, and military projects. Ms. Horn coordinates and manages project-related work efforts; actively interacts with public agency staff; and drafts

comprehensive reports that effectively utilize data collected from technical studies, public and private environmental/ community planning documents, and her individual research efforts. Selected experience includes:

- Cajalco Fire Station and WMWD Operation Center Improvements
- Fire Department Administrative Headquarters and Trumble Fire Station
- Romoland Master Drainage Plan Line A Interim Channel Terminus
- South Norco Channel. Line S-1
- University Avenue Mobility Plan EIR
- Bayshore Bikeway
- Dufferin Avenue Main Replacement
- Escondido Water Distribution Yard Relocation
- Etiwanda Pipeline Relining
- Riverside Box Springs Feeder
- Whitewater River/Colorado River Aqueduct Siphon Scour Protection. Mine Reclamation and Cabazon Radial Gate
- San Bernardino Transmission Main
- Diamond Valley Tank
- Santa Ana River Trunk Sewer
- I-5 North Coast Corridor Managed Lanes

Lara Costantino Grimmer, Environmental Project Manager

Education: B.A., Geography, emphasis in Natural Resources and the Environment



Ms. Grimmer's responsibilities include management of project teams in the preparation of environmental compliance documents in accordance with CEQA and NEPA, and supporting technical studies. Her direct professional experience has included the preparation of IS/MNDs, EIRs, Addenda, CEQA Findings, and Community Impact Analyses. Ms. Grimmer has experience with public agency outreach and expedited public review periods. Selected experience includes:

- SR-67/Prospect Avenue
- SR-11 and Otay Mesa East Port of Entry
- El Cajon Public Safety Center
- Cemetery Area Water Pipeline Replacement Project
- Mariana Ranchos County Water District Water System Improvements Project
- Hemet/San Jacinto Integrated Recharge and Recovery Program
- San Bernardino Supply Line Replacement
- Tenaja Pump Station
- Lake Morena Oak Shores Mutual Water Company Water System Improvements Project
- Pipeline 3 Relining Project, Sweetwater Reservoir to Lower Otay Reservoir
- Pipelines 3 and 4 Relining, SR-52 to Lake Murray and Pipeline 3 Interconnect to Lake Murray Control Valve

R. Brad Lewis, ASLA, LEED® AP BD+C, QSD/QSP, Sr. Landscape Architect/Visual Analyst

Education: B.S., Landscape Architecture; Registered Landscape Architect



Mr. Lewis is the HELIX Landscape Architecture Group Manager and a Registered Landscape Architect with 30+ years of experience in planning and landscape architecture. He is also a recognized expert in visual impact assessments. Mr. Lewis was the primary author of the current County of San Diego *Guidelines for the Use of Computer Photo Simulations in CEQA Visual and Aesthetics Analysis*. He has evaluated viewsheds and key observation points, community values regarding views and architectural design, degree of potential view interruption or degradation, and

length and configuration of shadows at various times of the year. He has identified potential sources of light and glare in relation to potential sensitive receptors, provided graphic depictions of existing views and anticipated view impacts, and recommended appropriate mitigation measures to reduce impacts to less than significant levels. Selected experience includes:

- County of San Bernardino On-Call Landscape Architectural Services
- Caltrans District 11 On-Call Landscape Architect Services, San Diego & Imperial Counties
- Robert B. Diemer Water Treatment Plant
- Melrose Drive Extension
- Espola Road Improvement Project
- I-215/Van Buren Boulevard
- SR-76 West Landscape Improvements
- Shoal Creek Pedestrian Bridge
- Cortez Marina Storm Water Pollution Prevention Plan

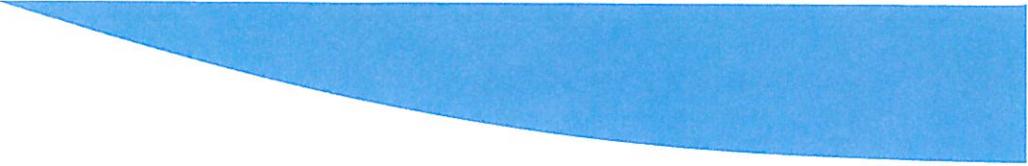
- Mission Trails Bike Path Study II
- Mast Park Restoration
- Collier Park Improvements
- El Mirage Community Center and Park
- North Harbor Drive Realignment
- Briggs Road TM 30433
- Encinitas Grade Separated Crossings
- Tecolote Canyon Mitigation Plan
- Canyon View Upland Mitigation

4. References

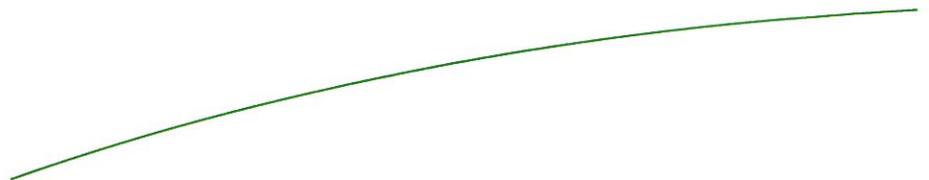
Along with our consistently high-quality work products, responsiveness to our clients is the hallmark of our success in consulting. HELIX has demonstrated our abilities in these areas through extensive experience providing on-call/as-needed services to numerous public agencies. Our relevant experience includes working on many concurrent, fast-track projects where maintaining key schedule milestones have been critical to success. Under these circumstances, our staff have repeatedly proven that they will do whatever it takes to meet a project deadline while still producing a quality-assured deliverable. HELIX encourages the City to contact the following references, who can attest to our success in this regard.

Table 2. Client References

Client	Contact	Telephone/Email
City of Riverside Public Utilities Department 3750 University Avenue, 3rd Floor Riverside, CA 92501	Blake Yamamoto, PE	951.826.5549 BYamamoto@riversideca.gov
City of San Diego Engineering & Capital Projects 525 B Street, Suite 750 San Diego, CA 92101	Carrie Purcell Principal Planner	619.533.5124 CPurcell@sandiego.gov
City of Santee Development Services Department 10601 Magnolia Avenue Santee, CA 92071	Kevin Mallory	619.258.4100 ext. 173 Kmallory@ci.santee.ca.us
City of Oceanside Water Utilities Department 300 North Coast Highway Oceanside, CA 92054	Jason Dafforn, Interim Water Utilities Director	760.435.5811 JDafforn@ci.oceanside.ca.us
City of Carlsbad 1635 Faraday Avenue Carlsbad, CA 92008	Barbara Kennedy, Senior Planner	760.434.2974 Barbara.Kennedy@carlsbadca.gov
University of California, San Diego, Physical & Community Planning 9500 Gilman Drive, Pepper Canyon Hall, Suite 464 La Jolla, CA 92093	Director, Environmental Planning	858.534.3860 cpresmyk@ucsd.edu



Attachment 1
Rate Sheet



Consulting Services

Consulting services performed by HELIX typically include, but are not necessarily limited to, office, field, meetings, hearings and travel time. Consulting services for expert witness review, deposition, and/or testimony will be provided at one and one-half times our professional rates.

Direct Costs

Certain identifiable direct costs will be charged to the project at cost plus ten percent. Examples of direct costs include subconsultants, vehicle or equipment rentals, airplane and train fares, parking, per diem and lodging, mileage, communications, reproduction, and supplies. A 4-wheel drive premium will be charged at \$25.00 per project day. There will be additional charges for plotting, color printing, aerial photographs and GPS services.

Payment

Invoices will be submitted monthly. Payment on invoices is due within thirty days of receipt. If payment is not paid when due, then such sum shall bear interest at 1 ½ % per month on the unpaid balance, not to exceed the maximum legal rate of interest.

Professional Rates

Current hourly rates for consulting services:

Principal	\$205.00-215.00
Principal Planner	\$180.00-205.00
Principal Biologist	\$180.00-205.00
Principal Permitting Specialist	\$170.00-200.00
Sr. Project Manager I-III	\$140.00-175.00
Sr. Acoustician	\$160.00-175.00
Sr. Air Quality Specialist	\$160.00-175.00
Sr. Environmental Specialist	\$150.00-165.00
Noise/Air Quality Specialist	\$135.00
Environmental Specialist I-III	\$85.00-150.00
Project Manager	\$105.00-140.00
Archaeology Field Director	\$80.00
Staff Archaeologist	\$80.00
Archaeology Field Crew	\$75.00
Sr. Archaeologist	\$125.00
Historian	\$70.00-125.00
Environmental Planner I-III	\$80.00-100.00
Environmental Analyst	\$65.00-75.00
Sr. Scientist	\$120.00-175.00
Biologist I-V	\$70.00-110.00
Assistant Biologist	\$50.00-60.00
Sr. Landscape Architect I-III	\$150.00-180.00
Project Landscape Architect I-III	\$100.00-140.00
Assistant Landscape Designer	\$70.00-100.00
Sr. GIS Specialist	\$105.00-145.00
GIS Specialist I-III	\$75.00-100.00
GIS Technician	\$50.00-60.00
Graphics	\$110.00
Document Coordinator	\$80.00
Technical Editor	\$70.00-90.00
Operations Manager	\$85.00
Word Processor I-III	\$65.00-80.00
Clerical	\$60.00

Rates are subject to change on a yearly basis