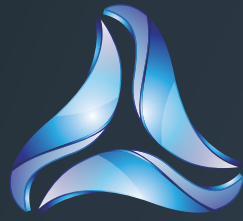




Gerald Desmond Bridge



GROUP DELTA
ENVIRONMENTAL SERVICES



LA State Historic Park

Statement of Qualifications

www.GroupDelta.com



San Gabriel Trench



Mill Creek Wetlands

Irvine
32 Mauchly
Suite B
Irvine, CA 92618
(949) 450-2100

Torrance
370 Amapola Avenue
Suite 212
Torrance, CA 90501
(310) 320-5100

San Diego
9245 Activity Road
Suite 103
San Diego, CA 92126
(858) 536-1000

Ontario
1035 South Milliken Avenue
Suite G
Ontario, CA 91761
(909) 295-5550

Victorville
12180 Ridgcrest Road
Victorville, CA 92395
(760) 881-3225

Oakland
505 14th Street
Suite 900
Oakland, CA 94612
(510) 671-0010

Anaheim
1320 South Simpson Circle
Anaheim, CA 92806
(714) 660-7500

"Delta is the Difference"



Established in 1986, Group Delta Consultants, Inc. (Group Delta) is a consulting firm with offices located in the counties of Los Angeles, Orange, San Bernardino, San Diego, and Alameda. Our environmental team consists of highly skilled environmental engineers, geologists, scientists, industrial hygienists, technicians, and support personnel specialized in their respective fields. We offer a broad range of services to meet the needs of our clients. Our capabilities and services include:

- Initial Site Assessments & Environmental Site Assessments;
- Site Investigations;
- Site Remediation;
- Hazardous Materials Management & Industrial Hygiene;
- Construction Compliance Support; and
- Stormwater/Water Quality Services.

Group Delta strives to provide exceptional, value-added services while ensuring our projects are completed on schedule and within budget for our clients. The high level of involvement from our principals and senior management and their commitment to developing innovative cost saving solutions has resulted in repeat business and strong client relations. Group Delta has received numerous awards and recommendations from well-known organizations in the public and private sectors highlighting the unique benefits of our approach and methodologies.

Phase I: Initial Site Assessments (ISAs) / Environmental Site Assessments (ESAs)

- Prior land use assessments via historical record search and analysis
- Site geology, hydrogeology, soil vapor, and groundwater research
- Property reconnaissance and adjacent site observation
- Review of hazardous substances and petroleum product storage, disposal, and spill records
- Local, regional, state, and federal file reviews for site and surroundings
- Interviews with the property occupants and owners
- Review of environmental liens and related land title records
- Evaluation of Recognized Environmental Conditions (RECs) for full, partial and non-acquisition properties
- Coordinating and completing ISA/ESA reports with client reviewers and interested third parties following current standards

Phase II: Site Investigations (SIs)

- Review of previous ISAs/ESAs and SIs written by others
- Evaluation of site geology, hydrogeology, vadose zone, and groundwater conditions
- Vapor intrusion assessment and analysis
- Groundwater monitoring well installation and sampling programs
- Preparing, coordinating, and implementing work plans for soil and/or groundwater exploration and analysis programs
- Human health and ecological risk assessments
- Evaluating the vertical and lateral extent of subsurface soil and groundwater contamination
- Coordinating and completing SI reports with client reviewers and interested third parties following current standards
- Conducting Aerially Deposited Lead (ADL) surveys and performing statistical analysis of results



Phase III: Site Remediation

- Preparation of Remedial Investigation/Feasibility Study (RI/FS), Remedial Action Plans (RAP), Removal Action Work Plans (RAWs), and Site Closure Reports
- “Pump-and-Treat” Remediation Systems
 - Design of Groundwater Extraction (GWE), Soil Vapor Extraction (SVE), and Dual-phase extraction (DPE) Remediation Systems
 - Construction management including material procurement and sub/vendor contracting and coordination
 - Remediation system operation and maintenance (O&M)
 - Design and implementation of “pump test” pilot studies
 - As-built drawing preparation
 - Specification development
- Smart (“Green”) Remediation
 - Implementation of ASTM greener cleanup standard
 - Review/optimization of pre-existing remediation systems
 - Calculation of sustainability metrics including carbon/environmental footprint and life cycle analyses
- Contaminated Soil Removal (i.e., “Dig-and-Haul”)
 - Removal Action Work plans (RAWs)
 - Impacted soil volume estimation
 - Innovative soil treatment and reuse methods including Transportable Treatment Units (TTU) and soil brokering
 - Compliance and permitting
 - Mass- and precision-removal design and implementation
 - Dewatering system design, permitting, and disposal
- In-Situ and Ex-Situ Remediation
 - Design, budget preparation, coordination, and implementation of complex soil and groundwater remedial activities
 - Working knowledge of several delivery mechanisms including in-situ injection via permanent wells and direct-push (i.e., “Geoprobe”) rigs, ex-situ soil mixing, and time-specific automated systems
 - Destruction or immobilization of a wide-range of recalcitrant, hazardous compounds including volatile and semi-volatile organic compounds (S/VOCs), polychlorinated biphenyls (PCBs), perchlorate, polycyclic aromatic hydrocarbons (PAHs), metals, long-chain hydrocarbons.
 - Implementation of several treatment chemistries including permanganates, activated persulfates, (modified) Fenton’s Reagent, bioremediation compounds, and reductive dechlorination.
 - Bench-scale Treatment Chemistry Feasibility Studies



Hazardous Materials Management & Industrial Hygiene

Surveys and Investigations

- Pre-demolition and renovation surveys for asbestos-containing materials (ACMs) and asbestos-containing construction materials (ACCMs) including bulk sample analysis for asbestos content
- Bulk asbestos content sample analysis
- Pre-demolition and renovation surveys for lead-based paint (LBP) and lead-containing surface coatings (LCSCs)
- Lead Content X-ray fluorescence (XRF) sampling
- Risk assessments for lead
- Indoor, breathing-zone mercury vapor surveys at active, manned and un-manned facilities
- Pre-demolition and renovation surveys for polychlorinated biphenyls (PCBs), regulated materials, and universal waste rule (UWR) materials
- Microbial (mold) and water intrusion investigations
- Indoor Air Quality (IAQ) investigations
- Mold Studies and Surveys
- LEED IAQ sampling and analysis

Technical Abatement Specifications and Work Plans

- Abatement specifications for asbestos removal and disposal
- Lead paint construction specifications
- Construction drawings for hazardous materials abatement
- PCBs, UWR, and regulated materials abatement specifications
- Mold remediation specifications and work plans
- Mercury abatement health and safety plans and work plans
- Procedure 5 (P-5) work plans for use in the South Coast Air Quality Management District (SCAQMD)
- Site specific work plans for asbestos and lead for abatement contractors
- Operations and maintenance (O&M) plans for ACMs in buildings

Abatement and Remediation Monitoring Services

- Air monitoring and contractor oversight during asbestos and lead abatement activities
- Pre-construction / Pre-proposal meeting attendance
- Contractor oversight for mercury, PCBs, UWR, and regulated waste remediation activities
- Mold remediation oversight and monitoring services including air and wipe sample analysis
- Preparation of final close out abatement / remediation documents

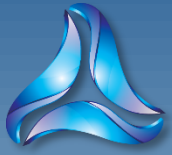


Construction Environmental Compliance

- Stormwater & Biological BMP Installation and Maintenance
- Coordination with Biological Compliance Monitors
- Permitting/Permit Compliance
- Mitigation Monitoring
- Soil Management Plans (SMP)
- Contaminated/hazardous soil management
- Health and safety plans
- Preparation of specifications
- Construction dewatering

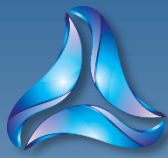
Stormwater

- Design, development, coordination, and implementation of Best Management Practices (BMPs)
- Preparation and implementation of Stormwater Pollution Prevention Plans (SWPPPs)
- Preparation and implementation of Low Impact Design (LID) and Standard Urban Stormwater Mitigation Plans (SUSMPs)
- Working knowledge of BMP types, in-house installation/maintenance/removal, procurement, sub/vendor contracting and management, and construction site planning and coordination
- Preparation/Implementation of Water Quality Monitoring Programs
- Business Group-level Stormwater Program Management



GROUP DELTA

PROJECT EXPERIENCE



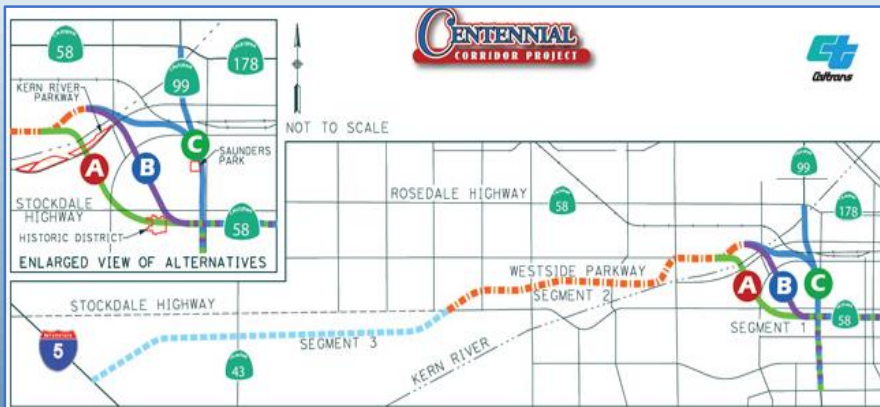
BAKERSFIELD CENTENNIAL CORRIDOR PROJECT Bakersfield, CA

Project Highlights

- Project will provide route continuity and associated traffic congestion relief along State Route 58 within metropolitan Bakersfield and Kern County from State Route 58, east at Cottonwood Road, to Interstate 5

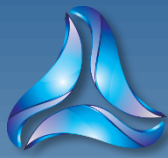
Group Delta Highlights

- Aerially Deposited Lead (ADL) Investigation to evaluate the lead content of unpaved soils and identify management requirements
- Hazmat surveys on 7 bridges for asbestos containing materials and lead based paint
- Preliminary Site Investigation (PSI) consisting of soils investigations for seven proposed acquisition parcels of concern



Project Information

Client:	Parsons Transportation Group
Owner:	Caltrans/ City of Bakersfield/ County of Kern
Total Cost:	\$570 Million
Completed:	Ongoing



GERALD DESMOND BRIDGE REPLACEMENT Port of Long Beach, CA

Project Highlights

- Highest vertical clearance of all cable-stayed bridges in the United States (US)
- Gerald Desmond Bridge accounts for 15% of waterborne cargo movement in the US
- Higher clearance to accommodate the newest generation of efficient cargo ships
- 2nd tallest cable-stayed bridge design in the US

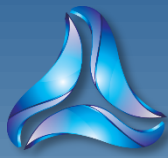
Group Delta Highlights

- Serving as Environmental Compliance Manager
- Groundwater Contamination Characterization, Monitoring and Modeling
- Hazardous Materials Surveys
- Stormwater Best Management Practice (BMP) inspections
- Impacted Soil Management



Project Information

Client:	Shimmick, FCC, Impregilo JV
Owner:	Port of Long Beach/ Caltrans
Total Cost:	\$1 Billion
Completed:	Ongoing



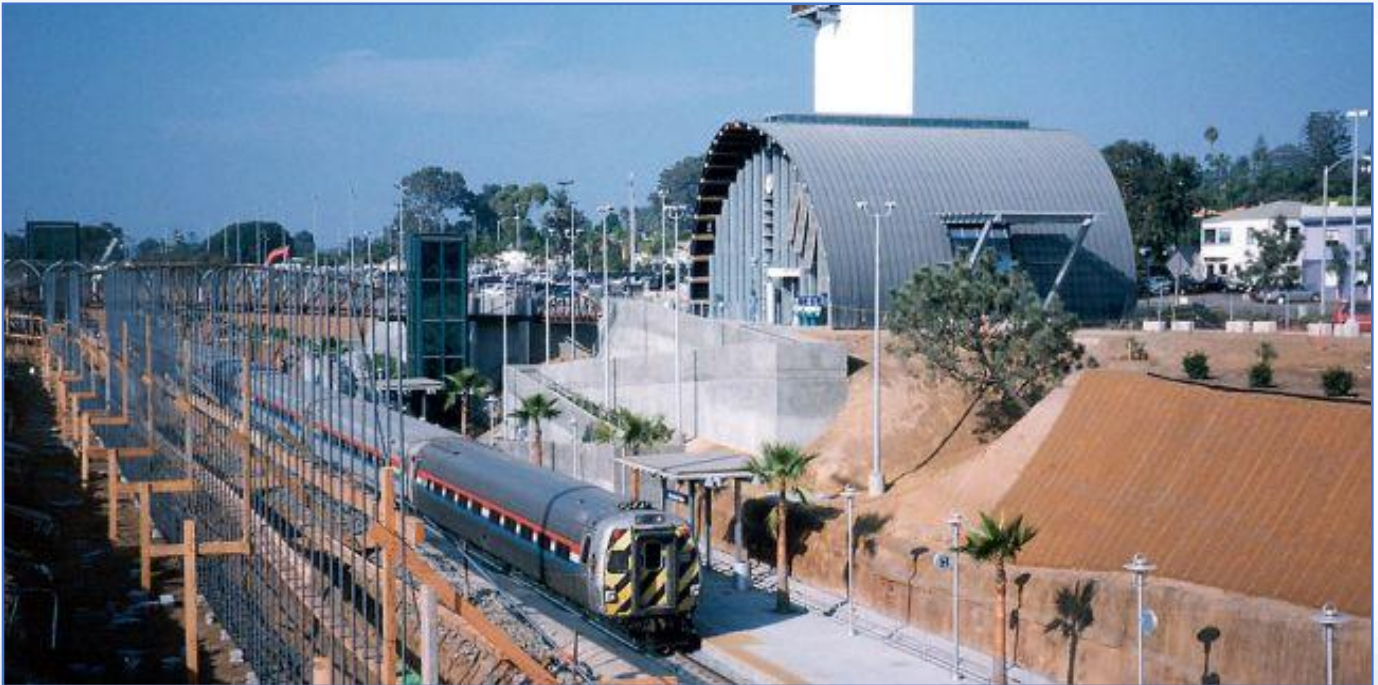
SAN GABRIEL TRENCH GRADE SEPARATION San Gabriel, CA

Project Highlights

- Lowering of 1.4-miles of Union Pacific rail line in a trench through the City of San Gabriel
- Will provide vehicles and pedestrians safe crossing over the tracks
- Reduction of locomotive horn and crossing bell noise, congestion and air pollution
- Eliminate delays for emergency responders and the potential for crossing collisions

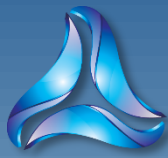
Group Delta Highlights

- Management of hazardous waste and remediation services
- Dust Monitoring
- Air Monitoring
- Extensive Contaminated Soil Characterization and Management



Project Information

Client:	The Walsh Company
Owner:	Union Pacific Railroad
Total Cost:	\$340 Million
Completed:	Ongoing



I-405 IMPROVEMENT PROJECT Orange County, CA

Project Highlights

- **Largest** transportation project in Orange County history
- 17-mile improvements to I-405 includes widening from SR-73 to I-605
- Addition of at least one general purpose lane in both the northbound and southbound directions
- Multi-jurisdictional services including night work along one of the busiest freeway in US

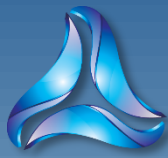
Group Delta Highlights

- ADL Study over 11 mile stretch of highway
- Soil and Groundwater Phase II Investigations
- Hazardous Material Surveys
- Geotechnical investigations, foundation design and recommendations



Project Information

Client:	Parsons
Owner:	OCTA/ Caltrans
Total Cost:	\$1.5 Billion
Completed:	2013



LOS ANGELES STATE HISTORIC PARK Los Angeles, CA

Project Highlights

- Redevelopment of the Los Angeles “Cornfield” and abandoned rail yard
- Was the terminus of Southern Pacific’s Transcontinental Rail Line
- Will include native habitats, welcome pavilion, citrus grove and wetlands area

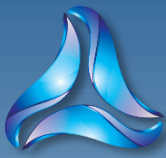
Group Delta Highlights

- Complex coordination effort with the Department of Toxic Substances Control (DTSC)
- Active construction worker hazard and risk mitigation for heavy metal contamination
- Time sensitive and critical path deliverables
- Performed site-wide Phase II ESA and remediation; air monitoring also performed during all excavation activities



Project Information

Client:	Flores Lund Consultants
Owner:	California Department of Parks & Recreation
Total Cost:	\$18 Million
Completed:	2015



MARCH AIR FORCE BASE Riverside, CA

Project Highlights

- Demolition of the Air Operations Building and the Air Traffic Control Facility
- The old tower measured approximately 136 feet tall and had a total footprint of approximately 15,820 square feet

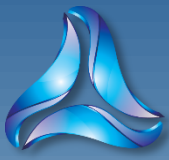
Group Delta Highlights

- Group Delta's certified technicians analyzed air samples onsite for asbestos which allowed our client to fast-track the project schedule (per their request)
- Project was completed ahead of schedule and under budget
- Air monitoring and contractor observation services for asbestos and lead removal



Project Information

Client:	Pacific Demolition
Owner:	March Air Force Base
Total Cost:	\$17 Million
Completed:	2014



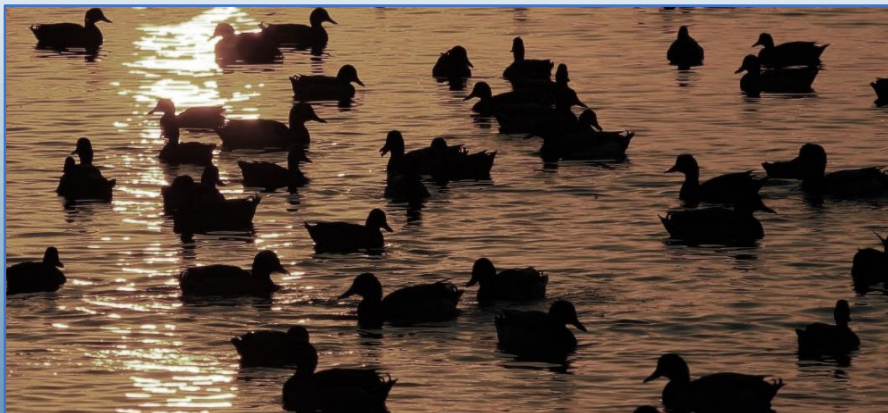
MILL CREEK WETLANDS PROJECT Chino, CA

Project Highlights

- **Multi-jurisdictional** regional watershed water quality management via stormwater wetlands treatment
- Provides regional **environmental and recreational** benefits
- Habitat restoration and ecological protection

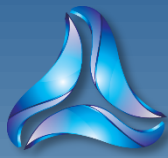
Group Delta Highlights

- Water quality sampling and analysis for contaminants, nutrients, organics, bacterial indicators, and parameters
- Surface water and groundwater flow measurements and modeling
- Assistance with wetland operation



Project Information

Client:	NMC Builders
Owner:	City of Ontario, CA
Completed:	2014



US NAVAL BASE - CORONADO San Diego, CA

Project Highlights

- This design-build project consists of a new physical fitness facility, liberty center, and an outdoor pool area
- Renovation to existing athletic fields and demolition of four buildings

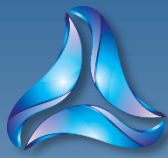
Group Delta Highlights

- Pre-demolition asbestos and lead surveys were performed on a 200,000 square foot structure and on two - 10,000 square foot structures
- Identification and removal of additional unforeseen hazardous materials to avoid exposure to the construction team and public
- Successfully overcame challenging structural obstacles that made roof sampling difficult



Project Information

Client:	Pacific Demolition
Owner:	NAVFAC Southwest Division
Total Cost:	\$42 Million
Completed:	2014



US NAVAL BASE – SAN DIEGO San Diego, CA

Project Highlights

- Partial demolition and renovation of the centralized training facility that houses the San Diego Navy's Littoral Combat Ship (LCS) simulators
- Building included renovation of high bay spaces, sensitive info facilities, classified vaults, and other areas with high access restrictions

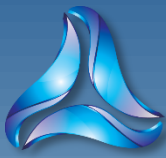
Group Delta Highlights

- Group Delta's industrial hygienist used direct reading dust instruments and rush-turnaround air samples for lead, cadmium, and zinc to meet the client's schedule requirements
- Asbestos abatement monitoring
- Project completed ahead of schedule and under budget



Project Information

Client:	Mortenson Construction
Owner:	NAVFAC Southwest Division
Total Cost:	\$75,000
Completed:	2014



SAN SEBASTIAN Laguna Woods, CA

Project Highlights

- Demolition of an existing building and construction of a new three-story building and parking garage

Group Delta Highlights

- Negotiated site closure with the Regional Water Quality Control Board (RWQCB) via natural attenuation – ultimately allowing project to progress on schedule and saving client money
- Performed initial site assessment and follow-up site investigation



Project Information

Client:	The Robert Mayer Corp.
Owner:	The Robert Mayer Corp.
Completed:	2009