Natural Resources Planning, Surveys, and Information Systems

We Provide Professional Capability and Capacity

Who We Are
Tierra Data Inc. (TDI) is a small, woman-owned business offering professional consulting services in natural resources planning, surveys and management. Founded in 1986, our scientists specialize in collaborative, interdisciplinary resolution of complex natural resource issues, backed by expertise in diverse ecosystem specialties.

We are problem solvers. We commit to a professionally defensible and collaborative approach to challenges in terrestrial, marine, aquatic, agricultural, and wildland-urban interface environments. Our work facilitates better decisions for sustainable human use and promoting ecosystem services both now and in the future.

Capability
TDI takes pride in being on the cutting edge: we constantly evaluate and implement innovative technology solutions to improve efficiency and quality of natural resources data collection and analysis. In doing so, we remain flexible, responsive, and cost-effective in providing scientifically sound products and recommendations. Our main office in Escondido, California has six data servers with over ten terabytes of data; a small branch office in San Francisco, California provides off-site storage for data security.

TDI regularly collects data electronically and can tailor services to client needs. This facilitates rapid deployment and is integrated into our environmental sustainability program.

Clients
CalTrans
Metropolitan Water District of Southern California
Port of Los Angeles
Port of San Diego
U.S. Navy
U.S. Marine Corps
U.S. Army Corps of Engineers
Civil & Hydraulic Engineers
Construction Companies
Argonne National Laboratory
National Park Service
Natural Resources Conservation Services (NRCS)
California Department of Parks & Recreation
City of San Diego
City of Vista
San Elijo Joint Power Authority
Private Enterprises
Land Management Companies
Conservancies
Universities

Past Performance
- CalTrans Habitat Restoration, Mitigation, and Maintenance
- Construction biomonitoring, MILCON, SDG&E and other utilities
- U.S. Navy IDIQ holder for natural resources, marine, and GIS contracts - 20 years with hundreds of completed task orders
- Biological surveys for all taxa, over two million acres in southwestern U.S. including military lands, private lands, BLM, National Park Service, and utilities - Permitted specialists covering wide range of disciplines
- Long-term ecosystem condition and trend monitoring of vegetation and soils
- Invasive species modeling, mapping, prioritization and control
- Interpretative signs, brochures, and outdoor venues, multiple Navy, Marine Corps, Port, and National Wildlife Refuge locations
- San Diego Bay Integrated Natural Resources Management Plan won the Coastal America Award for consensus and collaboration with 30 agencies and non-governmental organizations, and advisory university science team
- Climate Change Vulnerability Assessment

Points of Contact
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Core Competencies

Collaborative Natural Resources Plans
- Natural Resources Management Plans
- Collaborative group facilitation with agency & non-governmental organizations
- Grazing/Rangeland Systems
- Ecosystem Services

Coastal Resources Management
- Coastal Zone Management Act, Coastal Commission
- U.S. Army Corps of Engineers permits
- Coastal resources management plans
- Coastal sediment management

GIS & Remote Sensing, Data Management
- U.S. Navy GIS IDIQ support services
- Wildland fire, erosion, and habitat modeling based on DEMs
- Workstation Arc Info/ArcGIS/ArcMap, ERDAS

Habitat Restoration Plans, Construction & Maintenance
- Wetland freshwater, coastal and marine systems, vernal pools, coastal sage scrub, maritime chaparral, native grasslands
- Vegetation management plans
- Native propagation & seed collection
- USACE-compliant restoration plans
- Urban interface wetlands, stormwater detention basin wetlands

Permitting & Regulatory Compliance
- Wetland Delineation
- Mitigation Planning
- Endangered Species Compliance
- Biomonitoring

Conservation & Mitigation Plans
- Habitat Conservation Plans
- Mitigation bank viability assessments, baseline surveys, and monitoring
- Mitigation planning
- Habitat quality assessment

Biological Surveys
- Wetland delineation
- Avian studies
- Endangered species surveys
- Prepare and process regulatory permits
- Environmental impact assessment
- Biological resources impact reports
- Comprehensive flora and fauna surveys
- Vegetation mapping (VegCAMP)

Watershed Assessment
- Erosion evaluation and control measures
- Wetland & submerged aquatic vegetation surveys
- Microtopographic watershed documentation
- Stream Rapid Bioassessment, CRAM-Riparian, Estuarine, and Vernal Pool System certifications

Wildland Fire Management
- Federal fire and fuels management plans
- Fire behavior prediction and modeling
- Fire management in conservation preserves
- Fire ecology studies
- Post-fire monitoring and vegetation recovery
- Values-at-risk assessments

International Partnerships
- International experience in conservation and environmental management, primarily in Latin America
- On-the-ground work with local communities
- Spanish and Portuguese fluency
- Collaboration with non-profit, governmental, and international partners
- Watershed management in the Ecuadorian Andes Mountains

Rangeland Management, Agriculture, & Pollinators
- Grazing management plans
- Rangeland monitoring
- Land use and ecological trend
- Pollinator habitat enhancement

Conservation Education
- Briefings, educational outreach pamphlets, and presentations for construction workers
- Interpretive sign design and installation
- Educational video development

Marine Resources & Water/Sediment Quality
- Marine resource surveys
- Marine mammal monitoring
- Water quality/ sediment studies, compliance
- Eelgrass & kelp monitoring, intertidal and subtidal survey and dive transects

Climate Change
- Vulnerability Assessment - species and ecosystem response to global change
- Adaptation strategies
- Wetland resiliency planning
- Carbon Sequestration Accounting
- NEPA climate change analysis, including grazing