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CH2M HILL Qualifications

A global leader in full-service engineering, construction, and operations.

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CH2M HILL Introduction

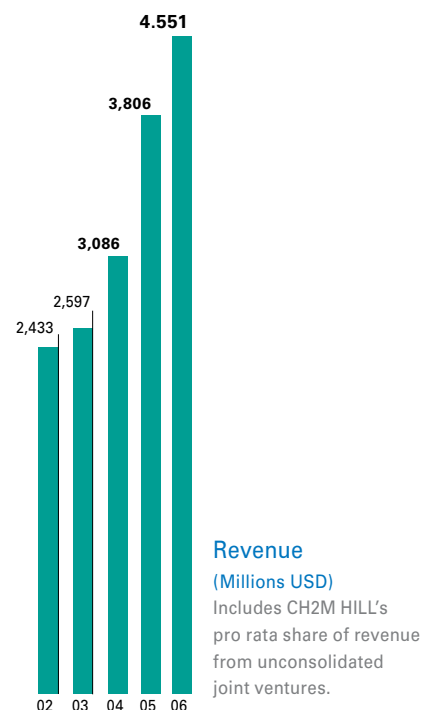
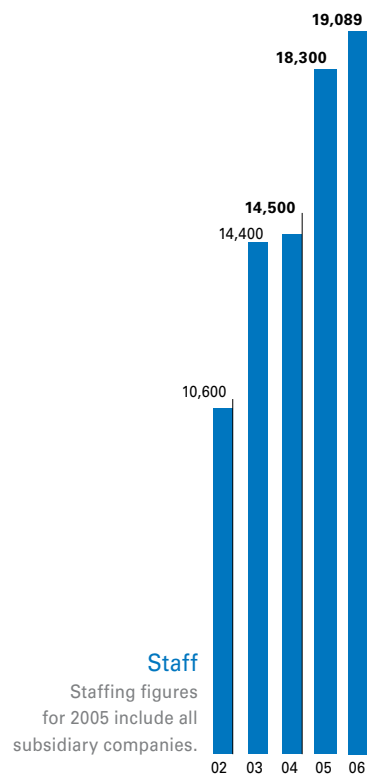
Founded in 1946, CH2M HILL is a global, full-service engineering, construction, and operations firm.

Our project delivery model is world class, and we partner with DOD customers to provide design, construction, and program management services.

We are a recognized leader in key disciplines managing large federal projects and programs. The firm is trusted to manage some of the world's most high-risk and highly visible projects.

We work at more than 50 DOD facilities. Our relationship with each DOD agency strengthens each year as we provide services in environmental remediation, ordnance disposal, special weapons disposal, hazardous waste management, anti-terrorism and force protection (AT/FP), air quality, compliance, facility services, transportation, and infrastructure delivery. Our Base Realignment and Closure (BRAC) expertise helps both the military and the community repurpose facilities, redevelop properties, and remediate environmental liabilities.

CH2M HILL is the largest employee-owned consulting firm in the United States, with 2006 revenues of more than \$4 billion, operating out of 350 permanent and project locations.





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Beyond Conventional Design Expertise

CH2M HILL offers integrated services that help our clients take any facilities project from concept to reality. Every element of our firm is structured to leverage our collective project knowledge, allow us to satisfy each client's unique needs, and deliver results that ensure success.

CH2M HILL has architects, engineers in each critical building system, interior designers, special technology experts, and support staff located throughout the United States and abroad. Our team has completed facility services for a broad range of building types, including administrative and office buildings, operation centers, industrial facilities, courthouses, educational facilities and research laboratories, and hotels and recreational facilities. This work includes both new construction and renovation projects.

High-Performance Architectural-Engineering Planning and Design

CH2M HILL offers beyond conventional design expertise that focuses on providing cost-effective, high-performance facilities. We assist clients with architectural-engineering design, site/landscape design, and facility engineering support, including tenant improvements, space allocation planning, equipment layout, critical power distribution, network integration, and entrance facility design. We are continually evolving the design process so that it is more effective every time and includes the latest technological advances.

Specialty Facility Services

Our record of success in specialty facility services goes back more than 20 years and includes more than 500 buildings. This expertise means that we efficiently determine areas of concern and recommend economical and effective solutions. Our worldwide project insights and record of successful problem solving allow us to quickly identify appropriate technical solutions that we know will work. Our specialty services include:

- Building information modeling (bim)
- Commissioning
- Energy analysis
- Asset planning and management
- Building forensics
- Indoor air quality and litigation support

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Cost-effective Integrated Solutions

CH2M HILL has a long history of providing environmental, health, and safety auditing and assessment services to clients in all industry groups, throughout the U.S. and worldwide. Environmental engineering and compliance services have been an integral part of CH2M HILL's business for more than 60 years. Today, we integrate our wide range of engineering and scientific services with our management systems to assist clients in meeting their business objectives through enhanced environmental performance.

CH2M HILL is well versed in and experienced with environmental laws and regulations, including the Clean Water Act; the Clean Air Act; the Resource Conservation and Recovery Act; and the Comprehensive Environmental Response, Compensation, and Liability Act. We understand the intricacies of the Safe Drinking Water Act; the Endangered Species Act; the Native Graves Protection and Repatriation Act; the Federal Insecticide, Fungicide, and Rodenticide Act; and the National Pollutant Discharge Elimination System. Additionally, we have extensive experience with EPA regulations, policies, and procedures.

To support our clients' management systems, we offer:

- Compliance management
- Environmental management systems, including iso 14001 management systems
- Environmental management information systems
- Budgeting and strategy
- Environmental cost accounting
- Strategic decision making and integrated risk management
- Outsourcing

Our technical abilities, knowledge, and experience combine for cost-effective, integrated management and engineering solutions.

"CH2M HILL pulled together an exceptional team of environmental experts who conducted one of the best audits the Academy has ever had. Their professionalism and 'can do' attitude were key factors in the success of this audit."

—Gary W. Earls, Colonel, USAF Commander,
10th Civil Engineering Group, United States Air Force Academy

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Industry Leader For Integrated Environmental Solutions

In the past 20 years, CH2M HILL scientists and engineers have conducted several thousand investigations and remediation projects at sites ranging in size from small, remote stations to complex, industrialized defense facilities encompassing several thousand acres.

CH2M HILL crafts strategies for our clients that integrate regulatory, technical, financial, project delivery, and risk management solutions to result in cost-effective site characterization and remediation.

Base Realignment and Closure/ Property Redevelopment

CH2M HILL expedites the transfer of BRAC sites by accepting or reducing environmental liability on contaminated properties and integrating the remediation with site development activities. We advise DOD, LRAs, and master developers on the BRAC transfer process, terms, and options.

Site Characterization, Remedial Design, and Construction

Risk analysis and risk-based decision-making are woven throughout the site characterization and remediation process to ensure that the characterization and selected remedy address the actual risk posed by site contaminants. Depending on project needs, we use standard investigative techniques such as direct push or drill rigs and fixed laboratories; if appropriate, we use streamlined screening techniques such as in-field analysis with field test kits, laser-induced fluorescence (to investigate hydrocarbons in soil and groundwater), and membrane interface probes (to investigate chlorinated solvents in soil and groundwater) to expedite characterization. For remote sites, we have constructed automated monitoring systems equipped with a satellite uplink for data transmission.

Environmental Liability and Asset Management

Whether your project involves remediation, air emissions control, solid waste management, or wastewater management, liabilities are best managed by first developing a clear

understanding of the risks posed by each. To create this understanding, CH2M HILL applies a proven process and associated analytical tools to rapidly assess the most effective ways to control costs. We identify, clarify, and analyze strategies, enabling the environmental manager to produce the greatest cost savings (or avoid costs altogether) for the least effort and expenditure.

Human Health Risk Assessments

CH2M HILL brings together experienced individuals with expertise in toxicology, environmental chemistry, contaminant transport modeling, probability, statistics, indoor air quality, and health physics to evaluate exposure to hazardous chemicals and radionuclides at DOD sites. By integrating risk analysis with site characterization and remedial planning, CH2M HILL offers DOD clients the full benefit of regulatory agencies' current emphasis on risk reduction during remediation, as opposed to simple contaminant mass reduction. Our innovative risk assessment strategies and tools achieve both regulatory and public acceptance.



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Planning Solutions

CH2M HILL realizes that customer needs, along with existing conditions and available capital, drive DOD planning activities. CH2M HILL is a leader in providing planning services to DOD customers. We understand the key interrelated factors that ultimately drive program and project success—the needs of the customer, combined with existing conditions and available capital, drive the functional planning of any developmental activity. Our firm is experienced in full project programming support. We have the expertise needed to identify project needs and draft 1391s.

In addition, we prepare comprehensive project books, develop design standards, and supply justification for project funding. We carry out planning initiatives with high customer involvement. Onsite workshops, or “charrettes,” build consensus on planning concepts and allow stakeholders to meet face to face, fostering understanding of mission requirements and related planning issues. By using these charrettes, CH2M HILL ensures that planned outcomes meet customer expectations.

CH2M HILL offers comprehensive planning services for a wide array of needs, including:

- CADD/GIS mapping
- GeoBase services

- Vision studies
- Wing consolidation
- Facility utilization studies
- Master planning concept designs
- Installation design guides
- Force protection planning
- Economic and market analysis
- Transportation and airfield planning
- Relocation management
- Planning projects

In addition, we have extensive experience in capital asset management, including assessing the current condition of real property assets and projecting future needs for continued use, as well as workspace reconfiguration/infrastructure and utility studies.

Project Highlight

Under the AFCEE 4P A-E Contract, CH2M HILL was retained to deliver web-based general plans to PACAF’s West- and East-Pacific Bases. As an integral part of comprehensive master planning, the base general plan summarizes the base comprehensive plan as required in Air Force Instruction (AFI)32-7062, Air Force Comprehensive Planning.

CH2M HILL was retained to update base general plans for Hickam AFB, Hawaii; Elmendorf AFB, Eielson AFB, and the 611 Air Support Group Radar Site Bases, Alaska; Kunsan AB, Osan AB, and the 607 ASG COBs (Suwon, Daegu, Gimhae, Cheong-Ju, and Gwang-Ju), Republic of Korea; and Yokota AB, Misawa AB, and Kadena AB in Japan.



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ch2mhill.com/munitions-response

Full Spectrum of MMRP Services

CH2M HILL is a leader in providing Military Munitions Response Program (MMRP) planning, compliance, and restoration services to our customers. We offer the full scope of services required to support mission goals at range sites, from environmental management and permitting at active ranges, to site closure and property transfer at closed or closing range sites.

CH2M HILL stands apart as one of the few companies with the breadth of expertise to provide cradle-to-grave services to meet munitions response (MR) requirements.

Our experience includes the full spectrum of compliance-related reporting, management, and permitting for active ranges and for site cleanup. Our success coordinating with regulators and addressing community concerns ensures that environmental regulations and public involvement issues do not adversely affect the testing, evaluation, destruction, or cleanup goals at a given site.

Services Offered

CH2M HILL offers a wide range of interrelated and overlapping MR services, grouped into the following areas:

- Munitions and explosives of concern
- Range management
- Munitions constituents—contaminated soil and groundwater
- Chemical warfare materiel
- Munitions demilitarization services
- Controlled detonation chamber services

Project Highlight:

CH2M HILL and partner USA Environmental are providing munitions response services through the \$50M NAVFAC PAC Munitions Response Contract. The \$12M task order is to continue the clean-up and conduct regulatory negotiations with EPA at Adak, Alaska.

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Core Services for All Project Phases

CH2M HILL is one of the largest construction management (CM) and engineering firms in the United States. Over the past 50 years, we have provided CM services on numerous facility and infrastructure projects and managed more than \$7 billion in completed construction through more than 25,000 design and construction projects.

As a measure of professional excellence, CH2M HILL was ranked No. 1 by *Engineering News-Record* among the top 100 design-build and construction management firms in 2006.

Planning and Conceptual Phase

- Project delivery analysis
- Selection and management of design professional
- Project master schedule
- Project budget and cost control
- Project management and information system
- Construction site safety
- Preparation of project and CM manuals

Design Phase

- Manage and administer design contract
- Constructibility analysis and design document review
- Independent cost estimates
- Maintenance and update of project master schedule and budget cost system
- Owner-furnished equipment and materials
- Value engineering analysis
- Quality management program
- Public relations

Bid and Award Phase

- Development of competitive bidder list
- Management of bid process
- Bid evaluation and award
- Construction contract

Construction Phase

- Construction site access and general conditions
- Administration of construction contract (insurance, bonds, permits)
- Coordination of site and prime contractors

- Inspection of the work completed
 - Schedule management
 - Change management
 - Payments to contractor
 - Communication, reporting, and documentation
 - Budget and cost control
 - Claims and disputes
 - Field technical and design clarification
 - Health and safety
- ### Project Closeout and Startup Phase
- Final inspection
 - Warranties, liens, manuals, training, as-built drawings
 - Occupancy and startup
 - Final closeout procedures

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Security Services

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Integrated Security Solutions

Combining our in house security, and AT/FP expertise with premier engineering capabilities, CH2M HILL identifies vulnerabilities; determines what needs to be done to meet DOD and host nation standards; and designs, constructs, and implements integrated solutions.

Security Planning, Design, and Construction

CH2M HILL's extensive portfolio of design, analysis, review, and construction of infrastructure and facility work for the DOD speaks to our depth and breadth of (AT/FP) and security capabilities. We have incorporated DOD AT/FP services into our standard design practice for military facilities throughout the Asia Pacific Rim. We also support the AT/FP needs of the DOD worldwide.

Our specialists who have worked in the Asia Pacific region have also supported the European Command, as well as DOD clients CONUS. For example, we:

- Wrote the mass notification Unified Facilities Criteria (UFC) for HQ U.S. Air Force Europe
- Completed blast analyses and mitigation work for the U. S. Air Force in CONUS
- Provided AT/FP planning for the U.S. Air Force in CONUS
- Designed an AT/FP compliance and planning tool for the U.S. Air Force

Projects Highlight

Various Security Upgrades and Renovations, Taegu AB, Korea. CH2M HILL coordinated this project with the U.S. Air Force and the U.S. Army, which operates the helicopters in the restricted area. We upgraded exterior area lighting in the vicinity of 21 Hardened Aircraft Shelters, upgraded RA perimeter lighting, and built a restricted area access road. These upgrades brought the restricted area into compliance with current U.S. Air Force security regulations, improved emergency response capabilities, and enhanced the efficiency and effectiveness of patrol and surveillance operations. Specific tasks were performed ahead of schedule and under budget. Extra funds were used to reinforce a road allowing helicopters to taxi on a section.

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Design-Build Transportation Solutions

CH2M HILL provides transportation-related services for aviation, highway, bridge, port, intermodal, and light rail transit projects. Services include design, corridor location studies, major investment studies, structural seismic and retrofit designs, intelligent transportation systems, value engineering, and design-build and other alternative project delivery. These complementary services ensure that our clients' projects benefit from a "macro" view that can help integrate the airport project into the overall local or regional transportation network, while meeting environmental and other regulatory requirements.

Military Aviation Services

CH2M HILL offers transportation clients a complete range of project services. Our airport engineers and project managers, combined with our planners, environmental scientists, and construction managers, provide one of the most comprehensive airport engineering programs anywhere.

Bridges and Structures

CH2M HILL project teams have designed bridges across North America for uses ranging from vehicle thoroughfares and pedestrian bridges, to pipeline suspension bridges. CH2M HILL's reputation for technical excellence, teamwork, cost effectiveness, and quality of work has resulted in its being chosen for some of the most technically challenging, environmentally sensitive, and high-profile bridge projects in the United States. The end result is a quality product, delivered in a timely manner, at a reasonable cost.

Our clients range from state departments of transportation to municipalities, federal and local agencies, utility companies, and developers.

Vehicle Maintenance Facilities Services

CH2M HILL provides a full spectrum of services for the vehicle maintenance facilities industry, including master planning, programming and management studies, design, and construction services. We have provided these services in transit, public works, military, and private facilities ranging from 30 to 5,000 vehicle fleets.

CH2M HILL provides professional services for vehicle maintenance facilities in numerous geographic areas. Our Vehicle Maintenance Facilities Design Group's areas of expertise include:

- Facilities needs analysis
- Environmental impact reports
- New facilities master planning
- Maintenance equipment evaluation
- Existing facilities rehabilitation
- Alternate sites evaluation
- Site planning and design
- Project administration assistance
- Preliminary architecture and engineering
- Detailed architecture and engineering
- Alternate fuels facility (CNG, LNG, LPG, ethanol, hydrogen fuel cell) design and modification
- Industry-specific maintenance and service equipment specifications



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Global Technical Expertise for Water Programs

CH2M HILL has successfully designed and constructed water and wastewater systems around the globe, ranging in value from facilities less than \$50,000 to large, complex projects exceeding \$50 million. One of our demonstrated strengths is our commitment to find the best solutions to achieve our customers' goals.

CH2M HILL serves DOD major commands and installations by providing solutions that solve their wastewater, water treatment, and stormwater management challenges. We meet our customers' needs through our broad knowledge of their business and production processes. Knowing the requirements for mission readiness, the manner in which wastewater and stormwater are generated, and the water

supply requirements allows us to apply leading-edge technical expertise to meet all critical success factors.

CH2M HILL is a leading firm for construction of water and wastewater and stormwater conveyance, treatment, storage, and management systems, along with many other infrastructure components. We have developed highly effective processes to manage the logistics necessary to perform projects worldwide, and we have the trade skills required to provide the full range of engineering, design, and construction services, including:

- Treatment and conveyance systems
- Storage and surge capacity
- Pump stations

- Automated control systems
- Hydraulic and surge analysis
- Startup and troubleshooting
- Process optimization studies, alternatives, and modeling
- Integrated pollution prevention and control
- Operations and service contracts
- Capital mobilization/project funding
- Design-build-own-operate-transfer
- Permitting and regulatory assistance
- Laboratory analytical services and studies
- Bench and pilot testing

Project Highlight

CH2M HILL executed approximately \$3.5 million in upgrades to the raw water pump station, filters and clarifiers, and other facilities throughout the Kunsan AB Water Treatment Plant. We installed approximately 1 mile of pipeline and a new pump station to transport water from the City of Gunsan distribution system to the Kunsan AB Water Treatment Plant to provide an alternate/emergency source of water supply.

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