

201 N. Civic Drive, Walnut Creek, Calif. 94596
Tel: 925-937-9010
Fax: 925-937-9026

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Media Contact:
Bill Peatman
925-210-2216
bpeatman@brwncald.com

Brown and Caldwell-designed Sewage Treatment Plant Awarded Prestigious LEED® Green Building Certification

December 8, 2011 (Walnut Creek, CA) – Brown and Caldwell announced today that the U.S. Navy’s \$13.9 million Indian Head Sewage Treatment Plant Control/Laboratory Building in Indian Head, Md., has been awarded the LEED Silver certification by the U.S. Green Building Council and verified by the Green Building Certification Institute (GBCI). Brown and Caldwell partnered with Haskell to design and construct the upgrades to the 0.5 million gallon per day STP using the design-build delivery method.

LEED is the nation’s preeminent program for the design, construction and operation of high performance green buildings.

“LEED certification is good news for the Navy and good news for the Chesapeake Bay Watershed,” said Brown and Caldwell project manager Pete Schuler. “The design features will help the facility operate more sustainably and meet lower nutrient limits.”

The facility achieved LEED certification for energy use, lighting, water and material use as well as incorporating a variety of other sustainable strategies. By using less energy and water, LEED certified building save money for families, businesses and taxpayers; reduce greenhouse gas emissions; and contribute to a healthier environment for residents, workers and the larger community.

“The green building movement offers an unprecedented opportunity to respond to the most important challenges of our time, including global climate change, dependence on non-sustainable and expensive sources of energy and threats to human health,” said Rick Fedrizzi, President, CEO & Founding Chair, U.S. Green Building Council. “The work of innovative building projects such as the Indian Head STP is a fundamental driving force in the green building movement.”

LEED certification of the Indianhead plant was based on a number of green design and construction features that positively impact the project itself and the broader community. These features include:

- **Energy and water conservation and efficiency:** Landscaping was designed so that no irrigation was necessary, used porous pavement, low flow fixtures (faucets, water closets, sinks to decrease use by 37%)

- **Use of recovered and recycled materials:** 20% of the building materials contained recycled content and 85% of the construction waste was diverted from landfills
- **Reduction or elimination of toxic and harmful substances:** Project utilized low VOC paints, coatings, adhesives, and sealants. In addition, the project installed UV disinfection to eliminate the need to use chlorine gas and sulfur dioxide gas for chlorination / dechlorination.
- **Efficiency in resource and materials utilization:** 45% of the total building materials extracted, harvested, recovered or manufactured within 500 miles of the project site.
- **Development of healthy, safe and productive work environments:** 99% of the regularly occupied spaces have access to views and daylighting.

The improved sewer plant also includes new headworks (screening and grit removal), influent pump station, continuous inflow SBRs, Blue Water upflow filters, UV disinfection, post aeration tanks, and a new control/laboratory building. In addition, the old aeration basins were converted to new aerobic digesters and most of the old wastewater treatment plant was demolished to avoid increasing the impervious area at the site.

About Brown and Caldwell

Since 1947, Brown and Caldwell has delivered innovative, enduring environmental solutions for municipalities, private industry and government agencies throughout the United States. An employee-owned company, Brown and Caldwell is relentlessly focused on client needs, and brings decades of engineering and scientific experience to every project. For more information visit www.browncaldwell.com.

About the U.S. Green Building Council

The Washington, D.C.-based U.S. Green Building Council is committed to a prosperous and sustainable future for our nation through cost-efficient and energy-saving green buildings. With a community comprising 80 local affiliates, more than 18,000 member companies and organizations, and more than 167,000 LEED Professional Credential holders, USGBC is the driving force of an industry that is

projected to contribute \$554 billion to the U.S. gross domestic product from 2009-2013. USGBC leads an unlikely diverse constituency of builders and environmentalists, corporations and nonprofit organizations, elected officials and concerned citizens, and teachers and students. Buildings in the United States are responsible for 39% of CO2 emissions, 40% of energy consumption, 13% water consumption and 15% of GDP per year, making green building a source of significant economic and environmental opportunity. Greater building efficiency can meet 85% of future U.S. demand for energy, and a national commitment to green building has the potential to generate 2.5 million American jobs.

About LEED

The U.S. Green Building Council's LEED green building certification system is the foremost program for the design, construction and operation of green buildings. Over 100,000 projects are currently participating in the LEED rating systems, comprising over 8 billion square feet of construction space in all 50 states and 114 countries.

By using less energy, LEED-certified buildings save money for families, businesses and taxpayers; reduce greenhouse gas emissions; and contribute to a healthier environment for residents, workers and the larger community. USGBC was co-founded by current President and CEO Rick Fedrizzi, who spent 25 years as a Fortune 500 executive. Under his 15-year leadership, the organization has become the preeminent green building, membership, policy, standards, influential, education and research organization in the nation. For more information, visit www.usgbc.org.