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# WATER RESOURCES

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VALUING EVERY DROP, ANYWHERE, IN ANY FORM:  
MAXIMIZING YOUR TOTAL WATER RESOURCES.





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## **PLAN, CONTROL, BUILD, CONSERVE, RE-USE: MANAGE THE COMPLETE WATER CYCLE.**

Black & Veatch can help you successfully manage the complete water cycle and position for the future water resource needs of your community. That means ample water supply, assurance of water quality, drought and flood contingencies, planning for climate change, reliable infrastructure and a multitude of additional factors we consider to help you achieve sustainable, long-term performance.

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### **ACHIEVING A BETTER BALANCE**

Are you utilizing your full water resources assets? Our Total Water Management approach considers the complete range of options to protect resources and achieve sustainability. We help you achieve success in the long term with conjunctive use of groundwater and surface water, recycling, groundwater recharge, reuse, and desalination of brackish and ocean water.

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### **NOT JUST GLOBAL—GLOBALLY INTEGRATED**

It's not the fact that we're all over the world that matters; it's the fact that our global workforce is truly integrated. That means you can access the best, most qualified team for your project, no matter where they may be based. That also means our "best practices" are international in scope. The best solution for your community may be flourishing half a world away. Black & Veatch brings it all to your doorstep.

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### **THE SCIENCE OF SUSTAINABILITY**

We understand that sustainability is no longer simply a goal, it's an imperative. You need to balance the environmental, social and economic factors that add up to successful water resource solutions for generations to come. We can help you achieve the right mix for your community with innovative problem-solving and technical excellence.



## DIMINISHING THE DEVASTATION OF DROUGHT

### Bundamba Advanced Water Treatment Plant Queensland, Australia

In an urgent, fast-tracked project that highlights the effectiveness of its Integrated Global Workforce, Black & Veatch is playing a key role in the largest water recycling project in the Southern Hemisphere, and the third largest in the world. The plant is part of the Western Corridor Water Recycling Project and is being designed and constructed by an alliance of Black & Veatch, the Queensland government and Thiess. This critical project will alleviate severe water shortages from a long drought and deliver a viable water supply for the next 50 years to South East Queensland.



**BUNDAMBA ADVANCED WATER  
TREATMENT PLANT**  
Queensland, Australia

## TURNING RAIN INTO RECREATION

### Lake Lenexa Dam and Spillway, Lenexa, Kansas, USA

As the Owner's Engineer and Construction Manager, Black & Veatch helped this city achieve a fresh perspective on dams and stormwater management. The facility achieves success in four diverse areas: improved water quality, effective stormwater and flood control, protection of natural resources, and expanded recreational opportunities for the community. A centerpiece of the city's "Rain to Recreation" initiative, the dam, spillway and reservoir cover 35 acres within 240 acres of preserved woodlands and streamways.



**LAKE LENEXA DAM AND SPILLWAY**  
Lenexa, Kansas

## CAPTURING A NEW OPERATIONS ASSET

### Heathrow Airport Terminal 5, United Kingdom

This extensive water management project includes a Black & Veatch-designed rainwater harvester that will collect stormwater runoff for use in the airport's non-potable water supply system for firefighting, toilet flushing and other purposes—eventually meeting up to 25% of total demand at the terminal. Surface water runoff is harvested from balancing ponds with rainwater pumped from the ponds to a treatment facility.

## DESCRIPTION OF SERVICES

- **Water Management and Supply**
  - Integrated Resource Planning
  - Watershed Planning
  - Groundwater Supply and Management
  - Source Water Protection
  - Water Quality Modeling
  - Water Quality Monitoring
  - Drought Contingency
  - Water Marketing
  - Water Rights and Transfers
  - Sustainability Assessments
- **Water Supply Infrastructure**
  - Hydraulic Structures
  - Dams, Levees and Reservoirs
  - Geotechnical Engineering
  - Pipelines and Pump Stations
  - Tunnels
  - Aquifer Storage and Recovery
  - Outfalls and Diffusers
  - Groundwater and Wells
- **Reuse and Conservation**
  - Environmental Planning
  - Reclamation
  - Demand Management
  - Reuse Market Assessments
  - Reuse Delivery Systems
- **Environment**
  - Low Impact Development
  - Eco-Restoration
- **Wet Weather Control and Stormwater**
  - Flood Control
  - Stormwater Planning & Design
  - CSO Planning & Design
  - Stream Restoration
  - Source Water Protection
  - Water Quality Modeling
  - NPDES Permitting

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## **BUILDING A WORLD OF DIFFERENCE®**

Black & Veatch is an employee-owned, global leader in building critical human infrastructure in Energy, Water, Telecommunications and Government Services. Since 1915, we have helped our clients improve the lives of people in over 100 countries through consulting, engineering, construction, operations and program management. Our revenues in 2015 were US \$3 billion. Follow us on [www.bv.com](http://www.bv.com) and in social media.

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### **BLACK & VEATCH**

**E** [weknowwater@bv.com](mailto:weknowwater@bv.com) | **W** [bv.com](http://bv.com)