



ARCADIS

Infrastructure · Water · Environment · Buildings



2011 BENCHMARKS

INNOVATION, BALANCE, CLIENT FOCUS

OUR AWARD-WINNING PROJECTS

This year's BENCHMARKS celebrates award-winning projects across the breadth of ARCADIS — encompassing Malcolm Pirnie, the Water Division of ARCADIS, and our Environment, Infrastructure and Buildings divisions. Together with architectural experts RTKL, we are united in a powerful mission — to improve quality of life by creating innovative and enduring solutions that enhance the built and natural environments, and in so doing, to produce exceptional value for our clients, shareholders and employees.

The award-winning projects presented in this issue exemplify the innovativeness and concern for sustainability that have long been the hallmarks of ARCADIS. To achieve this level of excellence, our teams combine the latest technologies with their hands-on experience to understand and solve a broad spectrum of problems. The projects apply leading-edge, emerging treatment technologies and innovative construction and project management approaches, all while never losing sight of our clients' sustainability goals — to maximize use of existing resources while minimizing impacts to the environment.

We and our clients are very proud of all of these projects, and invite you to read their stories in this issue of BENCHMARKS.

- San Diego County, CA
- Port of Long Beach, CA
- eBay Topaz Data Center, UT
- Poway Unified School District, San Diego, CA
- Arlington County, VA
- Rochester Water Bureau, NY
- Consolidated Mutual Water Company, CO
- City of Raleigh, NC
- Forest City Enterprises/Westfield Corporation, CA
- Bergen County Utilities Authority, NJ
- SROG Cities of Glendale, Mesa, Phoenix, Scottsdale and Tempe, AZ
- Town of Gilbert and City of Chandler, AZ
- City of San Diego, CA
- San Diego Unified Port District, CA
- Mahoning County, Ohio
- Greene County Park District, OH
- U.S. Army
- Cobb County-Marietta Water Authority, GA
- City of Surprise, AZ
- Georgia Department of Transportation
- American Society of Hematology
- Central DuPage Hospital, IL
- Majid Al Futaim Properties, Dubai, UAE
- Saratoga County Water Authority, NY

AWARDING ORGANIZATIONS

AAEE – American Academy of Environmental Engineers
ACEC – American Council of Engineering Companies
AEA – Association of Environmental Authorities
APWA – American Public Works Association
CMAA – Construction Management Association of America
NYSSPE – New York State Society of Professional Engineers



Photo ©Pablo Mason

LEED NATURE CENTER

Promotes Education, Stewardship, Environmental Goals

To increase public awareness of the importance of preserving the environment, the nature center was designed to meet LEED-Platinum certification criteria.

ARCADIS oversaw construction phase activities for this 5,600-sq.-ft. project, a two-story nature center made from recycled building materials. This environmentally sensitive building features solar panels, irrigated roof plants, and recycled water, and will serve as a local base for education, land stewardship, and environmental protection. It fulfills a long-unmet need of the San Elijo Lagoon Ecological Reserve, which is home to numerous species of reptiles, amphibians, mammals and birds.

The project was funded by County and State grants and achieved LEED Platinum certification. Among its

many sustainability features, the Center is constructed with reinforcing steel manufactured from recycled steel and concrete masonry including locally produced concrete and asphalt. Heat and light reflective roofing reduces cooling needs; a green roof features native plants that serve as a natural storm water filtration system for the lagoon. Colors for concrete block walls, slabs and columns were chosen to blend in with surrounding natural hues. Construction was scheduled to protect endangered animals and birds. Recycled water from an adjacent wastewater treatment plant is reused for irrigation and dual flush water closets.

PROJECT

San Elijo Lagoon Nature Center

CLIENT

San Diego County, CA

AWARDS

LEED PLATINUM (USGBC); - CMAA - San Diego Chapter, Buildings, New Construction, <\$10 Million; Sustainable Communities Champion (SDGE); Special Achievement in Energy by a Government - SANDEE Awards; Honor Award for Sustainable Design - Concrete Masonry Association; Green Building of America Award; Associated General Contractors "Build San Diego Award" Best Unique Small Project - Public Works Project; California Solar Initiative Recipient (DPR/Riha); National Award of Excellence for Sustainability – National Concrete Masonry Association; Associated Builder & Contractors ABC Award (Challenger Sheet Metal); Orchids and Onions Finalist; CPRS Award of Excellence, Cultural Facilities; ASCE, San Diego Section 2010 "Outstanding Project"; National Association of Parks and Recreation (NACPRO) Class II Awards



Adding Shore-to-Ship Power **CUTS AIR EMISSIONS**

ARCADIS provided construction management services for the Pier C Cold Ironing Project, designed to allow ships to plug into landside electricity instead of running on fuel when docked. The third wharf at the port to utilize shore-to-ship, or alternative marine power, the project will yield environmental benefits by decreasing fuel emissions, achieving the same air quality improvements as taking 33,000 cars off the region's roads. Designed to reinforce the Port's commitment to environmental sustainability and promoting renewable, clean-energy technologies, the project involved several complexities including the compatibility of electricity parameters as well as standardizing connectors and cables, loading requirements, legalities and safety compliance.

Photo ©Heliphoto

PROJECT

Construction Management for Pier C Cold Ironing Project

CLIENT

Port of Long Beach, CA

AWARD

2011 CMAA, Southern California Chapter, Honorable Mention, Infrastructure <\$10 Million



GREEN BUILDING For eBay Data Center

RTKL designed eBay's \$287 million Topaz Data Center, built to U.S. LEED Gold standards. Processing about \$2,000 in transactions every second for eBay.com and Paypal.com, the center is half as expensive to operate as the average eBay data center. Key green features include: cooling with a water-side economizer system; using outside air for warm-weather cooling; energy-saving 400V power distribution; and a hot air containment system for the server area.

Photo ©David Whitcomb

PROJECT

Topaz Data Center, South Jordan, UT

CLIENT

eBay

AWARD

2011 Climate Change Business Journal 2010 Award



SAVING ENERGY In New School Construction

After conducting a series of workshops to develop an implementation plan for the District's Proposition U Bond Program, ARCADIS provided overall program, project and construction management services for the entire \$476.5 million program. Two programs comprise over 250 individual projects at 25 school sites, executed over seven years, funded from both local bond sales and state funding. The project included energy consulting services to identify energy saving opportunities for all new and retrofitted facilities, resulting in many hundreds of thousands of dollars in energy savings.

PROJECT

Program, Project and Construction Management for Poway Schools

CLIENT

Poway Unified School District, San Diego, CA

AWARD

2011 CMAA San Diego Chapter, Program Management/Buildings Project Achievement Award



ENHANCED NUTRIENT REMOVAL

Protects Chesapeake Bay Water Quality

After decades-long regional efforts to reverse high levels of pollution in the Chesapeake Bay, this precedent-setting upgrade/expansion of an aging, space-limited wastewater treatment plant helps achieve stringent nutrient removal goals.

Arlington County was facing multiple challenges — meeting Chesapeake Bay enhanced nutrient removal (ENR) goals at a 50-year-old plant within a constrained site while expanding plant capacity and enhancing its ability to handle large wet weather flows.

ARCADIS' solution was a multi-year, \$568 million project designed to achieve 'limit of technology' treatment — by upgrading the existing biological nutrient removal (BNR) process to ENR for total effluent nitrogen and total phosphorus.

Virtually every process and structure in the plant from primary treatment to post-aeration was renovated, expanded or upgraded. Existing polishing filters were replaced with innovative deep-bed denitrification filter technology.

Treatment capacity was boosted from 30 million gallons per day (mgd) to 40 mgd, enabling the plant to handle significant wet weather flows, and creative design approaches overcame challenges of the tight site. Existing tanks and systems were sustainably reused to provide new facilities.

Today, as one of the first major treatment plants in the watershed to achieve ENR treatment quality, this plant is a major contributor to the Bay's environmental quality goals, protecting water quality for future generations.

PROJECT

Arlington County Water Pollution Control Plant Upgrade and Expansion

CLIENT

Arlington County, VA

AWARDS

2011 ACEC Virginia - Grand Award
2011 ACEC National Recognition
2011 AAEE - Grand Award, Design

Sustainable Design and Vision Drive **HISTORIC RESERVOIR REHAB**

Innovative improvements met the City's goals to reduce leakage at a historic reservoir in an urban park and comply with dam safety and drinking water regulations without damaging the park's valuable features. For this complex \$3.2 million renovation project, ARCADIS installed a new advanced geomembrane liner; sustainable, cured-in-place pipe lining technology cost-effectively rehabilitated rather than replacing century-old cast iron pipes; old stones from the reservoir floor were crushed and reused. Directional drilling minimized construction damage to the park's decades-old tree species. Creative construction approaches maintained the balance between technical improvements, regulatory requirements, budget and historic integrity, with minimum impact to park users.



PROJECT

Highland Reservoir Liner Project

CLIENT

Water Bureau, City of Rochester, NY

AWARDS

2011 ACEC New York - Gold Award; APWA, Genesee Valley Chapter Environmental Project of the Year <\$5 Million

New Treatment Plant Embodies **SUSTAINABILITY CONCEPTS**

To replace a 60-year-old water treatment plant, ARCADIS designed a new facility to respond to significant source water quality, site and budget issues and meet the client's commitment to sustainability. Constructed on the old plant's footprint, the \$26 million facility doubles treatment capacity to 18 mgd while innovative low pressure membrane treatment of backwash water achieves zero liquid discharge. Sustainable design features include 100% reuse of steel and building materials and energy conservation to reduce HVAC/electrical usage. Fast-tracked and delivered by the CM@Risk approach, with active participation, costing and constructability input from the contractor throughout the project, the aggressive schedule was met without interrupting water production.



PROJECT

Maple Grove Water Treatment Plant

CLIENT

Consolidated Mutual Water Company, Lakewood, CO

AWARD

2011 ACEC Colorado - Merit Award

ADVANCED TECHNOLOGIES Combine in a 'Green' Building

ARCADIS designed a unique process for the Benton Water Treatment Plant, which was renovated from a 1950s water pump station near Lake Benson in southwest Wake County. The process involves adding ozone to raw water; after coagulation with ferric sulfate, clarification, and two-stage filtration, filtered water is disinfected with both ultraviolet light and chloramines before storage in an on-site storage reservoir and eventual distribution directly to area residents. The new facility's contemporary architectural style uses a water theme and has 'green' design features incorporating LEED principles to achieve the City's goals. It also accommodates educational tours for the public to increase awareness and foster an atmosphere of public support.



PROJECT

Dempsey E. Benton Water Treatment Plant

CLIENT

City of Raleigh, NC

AWARD

2011 ACEC North Carolina - Grand Award



Photo Credit: Tim Griffith

Honored Retail Center Sparks

URBAN REGENERATION

Since opening in 2006, the Westfield San Francisco Centre has sparked regeneration in a once largely unoccupied area of San Francisco and now attracts an estimated 25 million shoppers annually. It is considered one of the most significant mixed-use developments in the last 20 years in the United States and was awarded one of the real estate industry's most coveted accolades.

PROJECT

Westfield San Francisco Centre,
San Francisco, CA

CLIENT

Forest City Enterprises/Westfield Corporation, Inc.

AWARD

Urban Land Institute (ULI)
2011 Award for Excellence - Americas Competition



GREEN SOLUTION For Sludge Management

To reduce sludge disposal costs and produce more biogas at two New Jersey wastewater facilities, ARCADIS designed a \$14 million retrofit of sludge processing equipment including an innovative combination gravity belt thickener and belt filter press to thicken digested biosolids. This enhanced digested sludge dewatering effectiveness, increased biogas production, and reduced maintenance, energy and sludge transportation/disposal costs, saving over \$2.24 million annually.

PROJECT
Sludge Management Program

CLIENT
Bergen County Utilities Authority, Water Pollution Control Division, Little Ferry, NJ

AWARD
2011 AEA Wave Award for Best Management Practices



COLLABORATIVE APPROACH Drives Wastewater Plant Expansion

ARCADIS engineered a 25.5 mgd expansion at the 91st Avenue Wastewater Treatment Plant, jointly owned by five Arizona cities, to produce high quality effluent for irrigation and other nonpotable uses. The project was delivered collaboratively using a "one team focused approach" during both design and construction. Creative project management techniques included project partnering and focused productivity workshops. A new treatment process was integrated seamlessly with no claims or change orders, saving hundreds of manhours and thousands of dollars. Wastewater reuse helped meet sustainability goals; an innovative dewatering approach helped construct the deep excavation.

PROJECT
91st Avenue Wastewater Treatment Plant Unified Plant 2005 Expansion

CLIENT
SROG Cities of Glendale, Mesa, Phoenix, Scottsdale and Tempe, AZ

AWARD
2011 AZ Water Association Project of the Year
2011 APWA Arizona Public Works Project of the Year >\$75M
2011 ACEC Arizona Honor Award



Overcoming Challenges of JOINT OWNERSHIP

ARCADIS served as project manager/owner's representative for this \$109.8 million project, which is jointly owned by two Arizona communities. Because of this unique joint ownership and the two municipalities' different personalities, ARCADIS was challenged to represent both clients fairly and objectively, quickly resolving any differences of opinion and approach, and also interacting with architect, contractor and construction manager-at-risk to monitor progress and quality and assure continual conformance with schedule and budget.

PROJECT
Santan Vista Wastewater Treatment Plant

CLIENT
Town of Gilbert and City of Chandler, AZ

AWARDS
American Concrete Institute Award, Infrastructure Category – Exposing the BEST in Concrete; ACEC Arizona Honor Award; American City and County Magazine Crown Communities Excellence Award; Maricopa Association of Governments Desert Peaks Award – Regional Partnership; APWA Arizona – Environmental Project of the Year <\$75 million; CMAA Project Achievement Award, Infrastructure Project <\$150 million

ADDING OZONATION

Produces Safer, Better Tasting Water

Replacing chlorine disinfection with ozonation produces healthier, better tasting drinking water while enabling the City to meet federal water quality regulations by minimizing production of potential carcinogens.



ARCADIS designed an upgrade and expansion of San Diego's 50-year-old Alvarado Water Treatment Plant, increasing capacity from 150 to 200 mgd and replacing chlorine disinfection with state-of-the-art ozonation facilities as primary disinfectant to meet Federal drinking water disinfection by-products regulations.

The new ozone facilities produce safer water by minimizing the production of trihalomethanes (THMs), potential carcinogens associated with chlorine disinfection, while improving drinking water taste and reducing unpleasant odors. A creative design approach to the ozone system yielded process and water quality benefits, achieving required contact time; a combination of chlorine and chloramines met post-filter primary disinfection criteria. More efficient

submersible propeller pumps with variable frequency drives cut operating and maintenance costs and reduced noise.

To minimize potential shutdowns of the highly complex ozone system, effective monitoring and control strategies were developed including an original "Hybrid Constant Concentration" control approach to provide continuous automated "background" ozone control. Requiring minimum operator attention, this system accommodates changes in flow and water quality or potential equipment failures. With this stable ozone control system, the Alvarado plant can deliver adequate, safe, better tasting drinking water to the City's 650,000 customers.

PROJECT

Alvarado Water Treatment Plant Expansion and Upgrading

CLIENT

City of San Diego, CA

AWARDS

2011 ACEC California - Honor Award,
2011 ACEC National Recognition



Photo ©ZackBenson.com

Cruise Ship Terminal Boasts **SUSTAINABLE FEATURES**

A major component of the North Embarcadero Visionary Plan, the Pavilion on Broadway Pier project involved demolishing the current embarkation platform, seismic retrofit of the pier, and construction of a LEED certified two-story cruise ship terminal facility, including provisions for security screening. Sustainable features include recycling of original concrete and steel, on-site renewable energy from photovoltaic system, and high reflectance/high emissivity roofing to reduce heat-island effect. The new terminal, enhanced with artwork, will serve as a future cruise berth during planned redevelopment.

PROJECT

Port Pavilion on Broadway Pier

CLIENT

San Diego Unified Port District, CA

AWARDS

2011 CMAA San Diego Chapter: Buildings, <\$25 Million



BALANCED RESTORATION of a Degraded Urban Stream

In Ohio's largest urban stream restoration project, ARCADIS developed a sustainable restoration to improve in-stream conditions of Little Beaver Creek — all while minimizing disturbance to park users and maximizing grant fund benefits. To stabilize the stream the channel was relocated away from landslide areas; flood-prone benches and grade control structures were installed to slow velocities and reduce erosion and a new wetland was developed to detain flood waters. Water quality into the Little Miami River, a state and national scenic river, was improved. Trailways were enhanced, and new signage educates parks visitors about the project's positive impact on stream and habitat quality.

PROJECT

Little Beaver Creek Stream Restoration Project

CLIENT

Greene County Park District/Soil & Water Conservancy District/Sanitary Engineering Dept., Xenia, OH

AWARD

2011 ACEC Ohio - Honor Award



REHABILITATING A Historic Ohio Bridge

As part of Youngstown's urban renewal efforts aimed at creating a "cleaner, greener, better organized" town, ARCADIS engineered a major rehabilitation of the Spring Common Road Bridge. Challenged to preserve the original design and materials of this historic bridge, listed on the National Register of Historic Places, ARCADIS completed an in-depth inspection, load analysis and plans for the existing structure, then engineered the final rehabilitation including deck replacement, new sidewalk and structural repairs.

PROJECT

Spring Common Road Bridge Rehabilitation

CLIENT

Mahoning County, OH

AWARDS

2009 Mahoning Valley Historical Society Community Revitalization Award; 2010 ACEC Ohio - Honor Award



SUPERFUND SITE REMEDY

Boasts Low Net Environmental Impact

The innovative design remedies developed by ARCADIS' multi-disciplined team of engineers and scientists incorporated sustainable in situ approaches as well as conventional remedial strategies, resulting in a robust design and comprehensive remedial approach.

ARCADIS was retained by the U.S. Army for a guaranteed, fixed-price remediation (GFPR) contract to remediate over 30 Areas of Concern at an active arms manufacturing facility, with over a million pounds of soil and groundwater contaminated with chlorinated solvents, metals, petroleum hydrocarbons and explosive chemicals. Working on an aggressive schedule and cost goals, within the complex CERCLA process, ARCADIS also focused on protecting human health while providing long-term environmental stewardship.

Blending different remedial strategies and technologies, including zero-valent iron/clay soil mixing to destroy contaminants passively, ARCADIS provided source treatment, in situ groundwater treatment, dissolved plume containment and soil remediation, changing the remediation dynamic from energy-demanding groundwater extraction to sustainable injection process.

The multi-faceted design solution achieves a sustainable, low net environmental impact remedy on schedule within an unprecedented four years at fixed cost.

PROJECT

Lake City Army Ammunition Plant Site Remediation, Independence, MO

CLIENT

U.S. Army

AWARD

2011 AAEE - Honor Award, Design



SCADA SYSTEM Bridges 'Islands of Automation'

ARCADIS used a creative design-build procurement approach to custom-tailor a state-of-the-art plant-wide SCADA system to replace an old, inefficient control system. The new SCADA design, expandable to accommodate a planned expansion, includes technology that minimizes software licenses and makes configuration easier. Existing PLCs were either replaced or leveraged to save on capital costs; more efficient motors and variable frequency drives replaced aging equipment.

Operators now monitor treatment processes from local terminals with graphic displays identical to the main control room; workshops with Authority staff gained operator acceptance. The new system provides an exceptional level of automation which increases system sustainability, reduces energy consumption and chemical costs. With far more accurate process control, the plant produces more consistently high quality water.

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- PROJECT**
Wyckoff Water Treatment Plant SCADA System
 - CLIENT**
Cobb County - Marietta Water Authority, GA
 - AWARD**
2011 ACEC Georgia - Honor Award

Water Master Plan for **SUSTAINABLE INFRASTRUCTURE**

To help create an integrated Water Master Plan despite future uncertainties — an undeveloped planning area, projected population expansion, fluctuating seasonal demand and limited water resources — ARCADIS developed an innovative planning tool. Using cutting edge technologies, it dynamically simulates water resource factors, integrating existing GIS databases with demand factors, and calculating water and reuse demands, wastewater flows, and reclaimed water availability. In an interactive workshop, City decision-makers ran numerous real-time “what-if” water demand/supply scenarios to visualize the complex process. The City is now working towards a sustainable balance between water demands and supplies including valuable reclaimed water resources.

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- PROJECT**
Integrated Water and Wastewater Master Plans
 - CLIENT**
City of Surprise, AZ
 - AWARDS**
2011 ACEC Arizona - Honor Award; AAEE - Honor Award, Planning

INFORMATIONAL VIDEO

Supports Highway Reconstruction Project

This innovative approach has greatly improved the client's ability to communicate with the public, and is now being used on other projects in multiple regions.



Interstate 285, the beltway around the core Atlanta metropolitan area, is one of the most heavily traveled and congested roadways in the nation, reflecting the area's phenomenal recent growth. ARCADIS was the lead firm responsible for development of eight multimodal design concepts for the massive reconstruction of numerous highway interchanges at the northern section of I-285 to improve safety and add "managed lanes" and a parallel transit facility.

To convey these complex concepts to the public, the ARCADIS team developed three-dimensional computer models of the project alternatives. Working with a communications subconsultant, they developed a video to both show and explain the concepts, using the highly realistic-looking 3D models, while the narration described the components. The video was shown at public meetings and posted on the project website and Facebook for public outreach.

PROJECT

Revive 285 Informational Video

CLIENT

Georgia Department of Transportation/Georgia Regional Transportation Authority

AWARDS

Public Relations Society of America - Certificate of Excellence for Writing - Video/Film Script; Certificate of Excellence for External Video Program; International Association of Business Communicators - Bronze Flame Award for Video Production, Bronze Flame Award for Writing/Script



Managing Atlanta's Complex TRAFFIC ISSUES

To enable the City of Atlanta to strategically concentrate financial resources and efforts along key commuter corridors, the GDOT implemented a Regional Traffic Operations Program (RTOP) to actively manage traffic flow along regionally significant commuter corridors within the Atlanta area. ARCADIS provided turnkey operational services for the RTOP including inventory and diagnostics of existing conditions, field monitoring and reporting, traffic signal maintenance and repair, traffic and travel time data collection, and coordination with regional partners.

PROJECT

Regional Traffic Operations Program, Atlanta, GA

CLIENT

Georgia Department of Transportation

AWARD

IT America Award



Photo ©Paul Warchol

LEED PLATINUM HEADQUARTERS

Strengthens Organizational Identity

Using collaborative research and user group studies as a guide during the design process, the RTKL design team created a branded workplace environment that reflects the culture and mission of ASH. The LEED-certified Platinum facility is one of only seven LEED Platinum commercial office buildings in the District of Columbia.

PROJECT

American Society of Hematology (ASH) Headquarters, Washington, D.C.

AWARDS

2011 IIDA MAC Design Awards Silver Award
2011 NAIOP Awards Award of Excellence



Photo ©Jeffrey Totaro

HOSPITABLE ENVIRONMENT

For Cancer Patients in Illinois

The Central DuPage Hospital Cancer Center received the first ever win in this category from Hospitality Design magazine. It was honored for its contemporary appearance, simple wayfinding, and comfortable environment for patients and their families. The cancer center is one of several projects RTKL has designed for the hospital.

PROJECT

Cancer Center, Central DuPage Hospital, Winfield, IL

AWARD

2011 Hospitality Design Magazine
Hospitality Design Award,
Senior Living/Healthcare Category



Photo ©Mitch Duncan

International Retail Destination Reflects

SUSTAINABILITY PRINCIPLES

Designed around a "desert villa" concept, the 230,000-SM Mirdif City Centre, containing over 450 retail stores, dining options and an indoor ski slope, was built to U.S. LEED Gold standards. Due to these stringent building criteria, the center is one of the first in the region that reduces energy demands and environmental impact.

PROJECT

Mirdif City Centre, Dubai, UAE

CLIENT

Majid Al Futtaim Properties

AWARD

2011 Cityscape Awards for Real Estate in the Middle East and North Africa (MENA) Region - Best Sustainable Development Award



REGIONAL WATER SUPPLY

Attracts Desirable High-Tech Industry

Assured high quality water supply delivered by innovative membrane treatment technology revitalizes the local economy.

In response to the County's goal to provide a safe, affordable water supply for residents and businesses, ARCADIS designed a new 14 mgd water treatment plant — New York State's largest membrane treatment plant and a pioneering installation of direct filtration for surface water.

To ensure lowest cost water over the project life, a competitive bidding process for membrane filtration equipment was based on lowest present worth cost. In a sustainable approach to routing the new 28-mile transmission main, environmental disturbance was minimized by following existing gas, sewer and rail rights of way; use of precast concrete vaults shortened

construction time. Reducing the pipeline's size, from the planned 48-inch-dia to 36-inch-dia, minimizes potential for adverse health effects from formation of THMs. The new plant meets stringent USEPA drinking water standards.

With this assured water supply, a new \$6.2 billion microchip manufacturing facility is now being built — a vital component of the future economic infrastructure of the County and State, representing thousands of jobs and millions of dollars of revenue that might otherwise have been lost.

PROJECT

Saratoga County Water Treatment Plant and Transmission Facilities

CLIENT

Saratoga County Water Authority, Moreau, NY

AWARDS

2011 ACEC New York – Diamond Award; ACEC National Recognition

2011 NYSSPE – Outstanding Engineering Achievement Award

2010 APWA Capital District Chapter, Environmental Project of the Year, >\$10M; APWA NY Chapter, Public Works Project of the Year – Environmental



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