

NACWA Utility Management Committee Chair, Tom Sigmund, is playing a leadership role in the Association's water resources utility of the future initiatives and sustainability efforts. Sigmund is the Executive Director of the Green Bay Metropolitan Sewerage District.



A Clear Commitment to America's Waters



AUGUST/SEPTEMBER 2012

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Clean Water Utilities a Strong Presence at White House Green Infrastructure Conference

large contingent of clean water utilities participated in a Sept. 20 conference hosted by the White House Council on Environmental Quality (CEQ) and U.S. Environmental Protection Agency (EPA) to explore the use of green infrastructure in managing stormwater and urban wet weather flows. The conference brought together key stakeholders from the utility, engineering, environmental/conservation communities, and the public sector, to examine the opportunities and challenges facing green infrastructure – and consider how to better encourage and implement it as a viable stormwater management approach.

Benefits & Barriers Discussed

Conference participants engaged in robust discussion focused on defining the range of benefits of green infrastructure practices; identifying barriers to these practices; finding opportunities for funding, financing and valuing green infrastructure; and developing steps that government and others

can take to promote greater implementation of green technologies to manage urban stormwater.

NACWA Members Pursue Innovative Solutions

The municipal clean water utility community had a strong voice throughout the day's discussions, ably represented by a number of NACWA members pursuing a variety of innovative green infrastructure solutions. Among the utility members present were the New York City Department of Environmental Protection, the Philadelphia Water Department, DC Water, the City of Los Angeles Bureau of Sanitation, the Northeast Ohio Regional Sewer District, the Metropolitan Water Reclamation District of Greater Chicago, the Metropolitan Sewer District of Greater Cincinnati, Onondaga County, NY, and the Milwaukee Metropolitan Sewerage District. Conference participants also heard from senior CEQ and EPA leadership, including Nancy Sutley, Chair of CEQ; Bob Perciasepe, EPA Deputy Administrator; Nancy Stoner, EPA

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Critical Clean Water Law Issues to be Examined at Law Seminar

ACWA's annual *Developments in Clean Water Law*Seminar – the only conference of its kind focused specifically on the broad array of legal and regulatory challenges facing the municipal clean water community – will be held November 14-16, 2012 at the Westin Seattle in Seattle, Wash. As in years past, the Seminar promises to deliver timely and provocative information on the hottest issues in clean water law, featuring top speakers from around the nation.





NACWA, WEF, WERF Join Forces on Utility of the Future Blueprint for Action

ACWA, the Water Environment Research Foundation (WERF), and the Water Environment Federation (WEF) have begun work on a collaborative initiative to develop a *Blueprint for Action* focused on the *Water Resources Utility of the Future* (UOTF). The Blueprint will define relevant issues, research and analyze key data, and offer recommendations for critical future actions. It will educate and inform – as well as provide a path forward for research-based advo-

Key Issues Identified Through NACWA Survey

UOTF approaches and initiatives.

cacy to remove barriers and provide incentives for

Electricity generation through methane recovery, solar photovoltaics, or wind turbines; recovery and reuse of waste heat; recovery of commercially valuable materials from both liquid and biosolids streams; reuse of wastewater for cooling, recharge, landscape irrigation; green infrastructure; and product stewardship and pretreatment initiatives are among the issues identified as relevant in a recent survey of NACWA member and nonmember public clean water utilities. The *Blueprint* will examine many of these issues and clearly assert that decisions about whether or not to engage in these activities are entirely based on local, sitespecific considerations.

The three collaborating organizations have convened a Steering Committee to provide high-level project oversight. The Steering Committee met via conference call on September 17, underscoring the timeliness of this effort and also agreeing to a list of recommended members for a Task Force to provide technical input into, and review of, the *Blueprint for Action*. The Task Force candidates in-

clude leading experts from an array of backgrounds, including the public sector, academia, consulting/engineering firms, and technology developers and manufacturers. Tom Sigmund, NACWA Utility Management Committee Chair, with the Green Bay Metropolitan Sewerage District, and NACWA President Suzanne Goss, with Jacksonville JEA, are the Association's member representatives on the

Steering Committee. Sigmund also serves as chair of the Task Force.

Plans call for the *Blueprint for Action* to be completed by January 2013. The *Blueprint* is anticipated to be both valuable and informative in post-election outreach to the Administration, Members of Congress, states, and other key stakeholders. NACWA's *Targeted Action Fund* (TAF) provides the Association's funding for the *Blueprint*.

Water Sector Representatives Talk Sustainability with EPA

epresentatives from the major water sector organizations, including NACWA, the American Public Works Association (APWA), the Association of Metropolitan Water Agencies (AMWA), and the Water Environment Federation (WEF), along with state water regulators and infrastructure financing experts met with the U.S. Environmental Protection Agency (EPA) in September on water utility sustainability. The day and a half-long meeting was organized by the Agency as a forum to discuss ongoing sustainability efforts, identify any gaps in information or resources, and consider potential next

steps for maintaining the current momentum among water sector utilities on sustainability.

watereum

Effective Utility Management

EPA has had an interest in sustainable utilities for years and was a driving force behind the ef-

fort that led to the Effective Utility Management (EUM) attributes and keys to management success, which were developed collaboratively by representatives from the six lead water sector organizations in 2007. During the September 25-26 meeting, EPA reiterated that its continued activity in this area is intended to provide information on the benefits of sustainability, without a top-down federal push for utilities to adopt these practices. NACWA Utility Management Committee Chair, Tom Sigmund, of the Green Bay Metropolitan Sewerage District and Diane Taniguchi-Dennis, of Clean Water

Services in Hillsboro, Ore., participated on behalf of the Association – engaging in discussions focused on the continuum of sustainability practices and what resources or information might be useful to utility managers to help them move forward.

Conventional & Emergent Models Explored

Participants discussed the characteristics of two broad utility business models – conventional and emergent – what sustainability practices are most likely associated with each model, and what steps

are needed to move from the conventional to the emergent model. Utility representatives stressed that a move to the more sustainable emergent model will be difficult for many still working to optimize their current practices – and that the limitations of smaller utilities must be recognized and addressed.

With compliance 100 percent of the time as a top priority, utility managers may avoid the risk associated with new technologies or approaches; however, to achieve real progress along the sustainability continuum, a new, shared-risk approach that rewards rather than penalizes innovation and risk, may be needed. EPA plans to develop a summary of the discussions during the meeting and may schedule a follow-up discussion with the participants to further refine the notes and discuss next steps.

The NACWA Regulatory Roundup

ACWA's active engagement on regulatory issues provides clean water utilities across the country with an important voice in emerging and evolving federal initiatives.

EPA Developing Response to NRDC Petition on Nutrients

Federal litigation over the U.S. Environmental Protection Agency's (EPA) failure to respond to the Natural Resources Defense Council's (NRDC) petition to modify secondary treatment to include nutrient removal is now on hold. Although the parties did not settle the case, EPA and NRDC did agree to put the lawsuit on hold to allow time for the Agency to develop a response to the petition. EPA has committed to issuing a response by December 14, 2012. NACWA's Board of Directors approved intervention in the lawsuit earlier this year, but with the case in abeyance intervention at this point is not necessary. Attention now turns to the technical staff at EPA who must work to craft a response to the petition together with EPA's attorneys. In early

September, NACWA met with EPA staff to reiterate that the Association's previous positions, including the legal and technical rationale for the Agency to deny the petition, remain valid today nearly five years after the petition was filed in November 2007. NACWA also offered to provide EPA information, including cost estimates, information on the performance of secondary treatment, and any nutrient data, to assist the Agency in developing a response to the petition. The Agency is providing few details on its next steps, but the Association will continue to work through its Water Quality Committee

to track the Agency's efforts and weigh in as necessary with additional information.

NACWA Pushes for Valid Science in Effort to Revise Recreational Water Quality Criteria

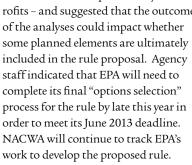
In an effort to meet an upcoming court-ordered deadline to publish the final criteria, EPA is working to address comments received in response to its December 2011 proposed revisions to the existing recreational water quality criteria. NACWA has met with the Agency on several occasions to learn EPA's progress and assess how the large number of comments received may impact the final criteria. The December 2011 proposed revisions maintained the current criteria values, last updated in 1986, which raised the ire of many environmental and public health groups who wanted to see the criteria made more stringent. In response to comments received, EPA is taking another look at data collected over the past five years to determine if it could support a criteria value lower than what was proposed in December 2011. NACWA supports EPA's December 2011 proposal and is seeking additional information on the statistical analyses being used to re-evaluate the

epidemiological data. Under a newly re-negotiated deadline, EPA will now have until November 30, 2012 to publish the final criteria.

NACWA, EPA Discuss Next Steps for **Post-Construction Stormwater Rule**

EPA recently announced a revised date of June 2013 for release of its draft post-construction stromwater rule, and NACWA met with key EPA staff in September to get an update on the Agency's progress. From a substantive standpoint, the major elements of the rule have not changed. Most notably, the rule proposal is still expected to include an expansion of current federal stormwater jurisdiction; new performance standards for new development and redevelopment projects to require on-site retention of stormwater; and a potential urban retrofit requirement to reduce areas of existing impervious surface. EPA continues to work on cost/benefit analyses for the new development/redevelopment performance standards and retrofit components. Agency officials have indicated that these analyses have been difficult given the

> nature of the rule - particularly for retrofits - and suggested that the outcome of the analyses could impact whether some planned elements are ultimately included in the rule proposal. Agency staff indicated that EPA will need to complete its final "options selection" process for the rule by late this year in order to meet its June 2013 deadline. NACWA will continue to track EPA's work to develop the proposed rule.



NACWA Comments on Registration Reviews for Root Control Chemical, Nanosilver

NACWA's advocacy efforts relating to emerging contaminants in wastewater

continue to focus on pollution prevention and leveraging EPA's existing statutory authority to better evaluate the aquatic impacts of chemicals before they are approved for use in commercial or consumer products. EPA's pesticide program provides regular opportunities to review the impacts of chemicals approved under authority of the Federal Insecticide, Fungicide & Rodenticide Act (FIFRA). NACWA commented on two FIFRA registration reviews in September. The Association's comments on dichlobenil, which is used in wastewater collection systems for root control, urged EPA to strike an appropriate balance between identifying risk management strategies that will allow for its continued use - and ensuring the protection of collection system workers, wastewater treatment operations, and the nation's receiving waters. NACWA's comments on the registration review for nanosilver underscored the lack of data regarding nanosilver's impacts in the environment, and on the wastewater treatment process. NACWA urged EPA to use the registration review process to fill these gaps before approving additional uses of nanosilver.



NACWA Blog, Online Community Invite Discussion

arlier this year, NACWA launched its blog, The Water Voice, and a dedicated online networking and knowledge sharing community, NACWA EngageTM. These intiatives provide important opportunities for clean water utilities and NACWA Affiliates to be a prominent part of the larger water quality conversations happening nationally. And that is exactly what is happening.

Discussions initiated on *Engage™* including recent posts regarding the U.S. Environmental Protection Agency's (EPA) response to an National Resource Defence Council (NRDC) petition seeking to include <u>nutrient removal №</u> as part of secondary treatment. Several member organizations offered to provide influent and effluent data on nitrogen and phosphorus, posed questions, and provided resources. In the <u>stormwater group №</u>, one discussion is focused on numeric <u>effluent limits №</u> and/or TMDL wasteload allocations. These offer a



sampling of the dozens of discussion that have been started in these and other groups on $Engage^{TM}$.

Blog Post Launches Discussion

A recent post on NACWA's blog, sparked a lively discussion. The post, Flushable Wipes, Clogging Pipes, stated, "There are no requirements that a product must meet to be labeled flushable, and products labeled as flushable may still cause problems in the sewer system because they do not disperse nearly as rapidly as toilet paper." One respondent noted, "At my last authority we had a lot of problems with "flushable" wipes, both from day cares and retirement facilities." Another wrote, "Let's hope this generates a lot of hits and builds momentum for a universal "NO FLUSH" label and instructions on all products that do not meet the INDA/EDANA Flushability Guidelines." INDA and EDANA represent the non-woven fabrics industry in the U.S. and Europe respectively.

New Engage™ Interest Groups Planned

Clean water utilities and NACWA Affiliates are encouraged to log-on to *NACWA Engage™* today and join your clean water colleagues from around the country for discussions and ideas. New interest groups are being rolled out in October. Indiviuals may also subscribe to the *The Water Voice*, and be the first to read about what NACWA is thinking about and discussing. Comments and questions about these sites can be directed to <u>Elizabeth Striano</u>, NACWA's Director, Social Media & Communications. ■

Law Seminar

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Integrated Planning, Consent Decrees a Key Focus

Front and center on the *Seminar* agenda will be an examination of the U.S. Environmental Protection Agency's (EPA) recent integrated planning framework – including its potential legal impact on municipal clean water utilities. EPA officials and legal experts will discuss the key elements of the framework, explain how it might be used in both an enforcement and permitting context, and outline the most important considerations for clean water utilities and their attorneys when pursuing an integrated planning approach. Related to this will be a panel discussion on recent developments in clean water enforcement actions and consent decrees, including the emerging possibility of a more flexible approach from EPA. This analysis will examine, as a major component, innovative municipal enforcement agreements from the past year – including consent decree modifications – and how utilities can leverage these legal developments to pursue additional enforcement flexibility.

Nutrients to Receive Critical Attention

Nutrients will also receive attention at the *Seminar*, given the growing legal challenges presented by nutrient impairment. The agenda will include an overview of ongoing nutrient lawsuits with national implications, including those in the Mississippi River Basin and the Chesapeake Bay. Panelists will also explore the re-

lationship between state and federal roles over nutrient criteria, as well as look at potential opportunities and legal considerations for addressing nutrients through water quality trading.

Other topics to be covered include a review of the top Clean Water Act (CWA) legal cases of the past year; an examination of the CWA and its interaction with other federal environmental statutes like the Endangered Species Act and Superfund laws; a discussion of emerging legal issues impacting municipal stormwater litigation and enforcement; and a look at key legal considerations for innovative solutions embodied in the water resources utility of the future, such as energy production, water reuse, and green infrastructure.

Additional information on the Seminar, including a preliminary agenda and details on registration and hotel accommodations, is available on NACWA's website. Continuing Legal Education (CLE) credits – including ethics credits – will also be available, and a list of CLE information by state is available online. The hotel registration deadline is October 23, 2012.

White House Green Infrastructure Conference

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Assistant Administrator for Water; and Cynthia Giles, EPA Assistant Administrator for Enforcement & Compliance Assurance.

NACWA – along with the Water Environment Federation (WEF), the Association of Clean Water Administrators (ACWA), American Rivers, the Natural Resources Defense Council (NRDC) and the U.S. Water Alliance – played a prominent role on the planning committee that assisted CEQ and EPA in developing the conference. It is anticipated that CEQ and EPA will publish the outcomes and recommendations resulting from the conference later this year.



NACWA Board Member James Parrott (center) Executive Director for the Metropolitan Sewer District of Greater Cincinnati was one of the Green Infrastructure Conference participants.

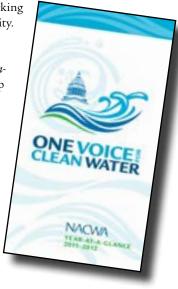
NACWA's Year-At-A-Glance Showcases Achievements

n the national policy arena, it is often difficult to quantify the impact of an association's advocacy efforts. Each year, NACWA captures the year's achievements in its <u>Year-At-A-Glance</u>. The <u>Year-at-a-Glance</u> showcases the very best of the Association's advocacy on behalf of the nation's clean water utilities. Included in this year's annual report are recaps of NACWA's work on:

- The Money Matters ... Smarter Investment to Advance Clean Water™ campaign. The campaign provided a framework for NACWA and its Money Matters Task Force to push for regulatory prioritization reform under the CWA so that communities can make the best use of their limited funding to meet their obligations. One tangible result of these efforts has been the U.S. Environmental Protection Agency's (EPA) release of its integrated planning framework.
- The single largest litigation effort in the Association's history over EPA's rule to regulate air emissions from sewage sludge incinerators (SSIs) under the Clean Air Act (CAA). Actively supported by its members who incinerate, NACWA is making the case that incineration has provided an environmentally responsible and cost effective way to manage biosolids for many years.
- The important role clean water utilities will play in the future, as resource recovery entities, energy-producers, and fertilizer generators, and through using green infrastructure and emerging technologies to achieve water quality goals.
- A national Farm Bill that will encourage better nutrient management practices by farmers and two critical lawsuits that seek to compel EPA action to address nutrient impairment with potentially profound implications for municipal clean water utilities.
- An unprecedented expanded engagement in social media. Today you'll find NACWA on Facebook and Twitter; on its blog, <u>The</u> <u>Water Voice</u>; and, most importantly on <u>NACWA Engage</u>[™] - the

Association's professional networking and knowledge sharing community.

Each of these achievements – and the many others showcased in the *Year-at-a-Glance* – demonstrate that membership in NACWA is an investment that pays great dividends.



Water & Wastewater Leadership Center

Executive Education Designed Specifically for Utility Leaders

February 24 – March 8, 2013

University of North Carolina Chapel Hill, Kenan Flagler Business School

Held through University of North Carolina Chapel Hill, Kenan Flagler Business School; the Water & Wastewater Leadership Center cultivates water sector leadership and management skills in an intensive 12-day executive management learning experience. Students are challenged to broaden their perspective on evolving issues facing utilities and the changing business environment, while key course elements provide instruction on how to think strategically and lead confidently.

Learn more and download an application at www.wef.org/conferences or contact Kelly Brocato, Leadership Center Program Manager at kbrocato@nacwa.org.





NACWA Honors 138 Member Agency Facilities with Platinum Peak Performance Awards

ach year, NACWA's Peak Performance Awards program recognizes Member Agency facilities for excellence in wastewater treatment as measured by their compliance with their National Pollutant Discharge Elimination System (NPDES) permit requirements. This year, 138 treatment facilities were honored at NACWA's 2012 Summer Conference with Platinum Peak Performance Awards signifying their 100% compliance for five or more years. NACWA was proud to honor 19 facilities that earned *Platinum* awards for the first time. An additional 119 facilities achieved the remarkable accomplishment of maintaining perfect compliance for time periods ranging from six to 25 years.

A number of NACWA Member Agency facilities also earn Gold Awards for maintaining perfect compliance for a full calendar year, and Silver Awards for no more than five violations a year. The Association was honored to recognize, along with our Platinum Award winners, 174 Gold and 136 Silver Award honorees for their commitment to excellence. This year NACWA paid tribute to a total of 448 facilities with Peak Performance Awards. This outstanding accomplishment signifies NACWA members' commitment to environmental protection and represents the diligence and hard work of each agency's employees. NACWA congratulates all its Peak *Performance* winners:

Platinum25

Hampton Roads Sanitation District, VA Army Base Sanitary Treatment Plant

Platinum23

Hanover Sewerage Authority, NJ Hanover Sewerage Authority Wastewater Treatment Plant

Platinum22

City of Ames, Iowa Water and Pollution Control Department, IA

Ames Water Pollution Control Facility

City of Fort Worth, TX

Village Creek Wastewater Treatment Plant

Platinum21

Metropolitan Council Environmental Services, MN

Hastings Water Reclamation Facility

The Ocean County Utilities Authority, NJ Central Water Pollution Control Facility

City of Dallas Water Utilities, TX Southside Wastewater Treatment Plant

Platinum20

Metropolitan Water Reclamation District of Greater Chicago, IL

Calumet Water Reclamation Plant

Metropolitan Council Environmental Services, MN MCES-St Croix Valley Water Reclamation Facility

Platinum₁₈

City of San Diego Public Utilities Department, CA

E. W. Blom Point Loma Metropolitan Wastewater Treatment Plant

Trinity River Authority of Texas, TX

Central Regional Wastewater System

Salt Lake City Department of Public Utilities, UT Salt Lake City Water Reclamation Facility

Platinum17

The Ocean County Utilities Authority, NJ Northern Water Pollution Control Facility

Hampton Roads Sanitation District, VA Williamsburg Sanitary Treatment Plant The Ocean County Utilities Authority, NJ

Southern Water Pollution Control Facility

Milwaukee Metropolitan Sewerage District, WI South Shore Water Reclamation Facility

Platinum14

Central Contra Costa Sanitary District, CA Central Contra Costa Sanitary District

City of Cumming, GA

Bethelview Road AWater Reclamation Facility

Metropolitan Sewer District of Greater Cincinnati, OH

Taylor Creek Wastewater Treatment Plant

Fairfax County Wastewater Management

Noman M. Cole, Jr. Pollution Control Plant

King County Department of Natural Resources and Parks, WA

South Treatment Plant

City of Tacoma, WA

North End Treatment Plant

Milwaukee Metropolitan Sewerage District, WI Jones Island Water Reclamation Facility

Platinum13

Anne Arundel County Department of Public Works, MD

Annapolis Water Reclamation Facility

Secaucus Municipal Utilities Authority, NJ Koelle Boulevard Wastewater Treatment Facility

City of Las Vegas, NV

Water Pollution Control Facility



Platinum16

City and County of San Francisco, CA Oceanside Wastewater Treatment Plant

Hampton Roads Sanitation District, VA Virginia Initiative Sanitary Treatment Plant

Platinum15

Metropolitan Water Reclamation District of Greater Chicago, IL

Lemont Water Reclamation Plant Stickney Water Reclamation Plant

Citizens Energy Group, IN

Belmont Advanced Wastewater Treatment Plant

Anne Arundel County Department of Public Works, MD

Broadwater Water Reclamation Facility

 ${\sf El\ Paso\ Water\ Utilities\text{-}Public\ Service\ Board,\ TX}$

Northwest Wastewater Treatment Plant

Upper Trinity Regional Water District, TX Lakeview Regional Water Reclamation Plant

Hanover County Public Utilities, VA Ashland Wastewater Treatment Plant

Morgantown Utility Board, WV Cheat Lake Wastewater Treatment Plant

Platinum12

East Bay Municipal Utility District, CA

East Bay Municipal Utility District Special District No. 1

Washington Suburban Sanitary Commission, MD Damascus Wastewater Treatment Plant

Western Lake Superior Sanitary District, MN Western Lake Superior Sanitary District

City of Rochester, MN

Water Reclamation Plant

Stony Brook Regional Sewerage Authority, NJ

River Road Wastewater Treatment Facility

Philadelphia Water Department, PA

Southeast Water Pollution Control Plant

 ${\bf Trinity\ River\ Authority\ of\ Texas,\ TX}$

Red Oak Creek Regional WWS

Central Davis County Sewer District, UT

Central Davis County Sewer District

Platinum11

Mobile Area Water & Sewer System, AL

Clifton C. Williams Wastewater Treatment Plant

Metropolitan Council Environmental Services, MN

Seneca Water Reclamation Facility

City of Dallas Water Utilities, TX

Central Wastewater Treatment Plant

Morgantown Utility Board, WV

Morgantown Wastewater Treatment Plant

Platinum₁₀

County Sanitation Districts of Los Angeles County, CA

Joint Water Pollution Control Plant

Gwinnett County Department of Water Resources, GA

Crooked Creek Water Reclamation Facility

Clean Water Services, OR

Forest Grove Wastewater Treatment Facility

Trinity River Authority of Texas, TX

Ten Mile Creek Regional Wastewater System

North Texas Municipal Water District, TX

Cottonwood Creek Wastewater Treatment Plant

Hampton Roads Sanitation District, VA

Boat Harbor Sanitary Treatment Plant

Hampton Roads Sanitation District, VA

Nansemond Sanitary Treatment Plant

King County DNRP, WA

West Point Treatment Plant

Platinum9

Mobile Area Water and Sewer System, AL

Wright Smith, Jr. Wastewater Treatment Plant

City of San Diego Public Utilities Department, CA

South Bay Water Reclamation Plant

West County Wastewater District, CA

Water Pollution Control Plant

North Shore Sanitary District, IL

Clavey Road Sewage Treatment Plant

City of Raleigh Public Utilities Department, NC

Neuse River Wastewater Treatment Plant

City of Houston, Public Works & Engineering, PUD, TX

Willow Run Wastewater Treatment Plant

Snyderville Basin Water Reclamation District, UT

Silver Creek Water Reclamation Facility

Green Bay Metropolitan Sewerage District, WI

Green Bay Facility

Platinum8

Jefferson County Environmental Services, AL

Turkey Creek Wastewater Treatment Plant

Pima County Regional Wastewater Reclamation Department, AZ

Green Valley Water Reclamation Facility -Biological Nutrient Removal Oxidation Ditch

Avra Valley Wastewater Treatment Facility

Delta Diablo Sanitation District, CA

Delta Diablo Sanitation District

North Shore Sanitary District, IL

Waukegan Sewage Treatment Plant

Citizens Energy Group, IN

Southport Advanced Wastewater Treatment Plant

Kansas City Water Department, MO

Northland Mobile Home Park Wastewater Treatment Plant Charlotte Mecklenburg Utilities, NC

McDowell Creek Wastewater Treatment Plant

Salisbury-Rowan Utilities, NC

Salisbury-Rowan Wastewater Treatment Plant

Water and Sewer Authority of Cabarrus County, NC

Rocky River Regional Wastewater Treatment Plant

City of Henderson, NV

Kurt R. Segler Water Reclamation Facility

Clean Water Services, OR

Rock Creek Advanced Wastewater Treatment

Facility

City of Corvallis Public Works Department, OR

Wastewater Reclamation Plant

Renewable Water Resources, SC

Mauldin Road

Upper Trinity Regional Water District, TX

Peninsula Regional Water Reclamation Plant

Snyderville Basin Water Reclamation District, UT

East Canyon Water Reclamation Facility

County of Stafford Department of Utilities, VA

Little Falls Run Wastewater Treatment Facility

Platinum7

Central Marin Sanitation Agency, CA

Central Marin Sanitation Agency

City of Boise Public Works, ID

Lander Street Wastewater Treatment Plant

Metropolitan Water Reclamation District of Greater Chicago, IL

James C. Kirie Water Reclamation Plant

Sanitation District No. 1, KY

Walton Wastewater Treatment Plant

Oakland County Water Resources Commissioner, MI

Commerce Township Wastewater Treatment Plant

City of Raleigh Public Utilities Department, NC

Smith Creek Wastewater Treatment Plant

Charlotte Mecklenburg Utilities, NC

Mallard Creek Water Reclamation Facility

Philadelphia Water Department, PA

Northeast Water Pollution Control Plant

 ${\sf Renewable\ Water\ Resources,\ SC}$

Georges Creek

Trinity River Authority of Texas, TX

Denton Creek Regional Wastewater System



City of Houston, Public Works & Engineering, PUD, TX

Homestead Wastewater Treatment Plant

North Texas Municipal Water District, TX Seis Lagos Wastewater Treatment Plant

Alexandria Renew Entreprises, VA Water Resources Facility

Upper Occoquan Service Authority, VA Millard H. Robbins, Jr. Regional Water Reclamation Plant Hanover County Department of Public Utilities, VA

Totopotomoy Waste Water Treatment Plant

Platinum6

County Sanitation Districts of Los Angeles County, CA

Long Beach Water Reclamation Plant

City of Aurora Water Department, CO Sand Creek Water Reuse Facility

Columbus Water Works, GA South Columbus Water Resource Facility

Metropolitan Water Reclamation District of Greater Chicago, IL

North Side Water Reclamation Plant

Fox River Water Reclamation District, IL West Water Reclamation Facility

Johnson County Wastewater, KS Blue River Main

Washington Suburban Sanitary Commission, MD

Parkway Wastewater Treatment Plant Seneca Wastewater Treatment Plant

Oakland County Water Resources Commissioner, MI

Walled Lake-Novi Wastewater Treatment Plant

Metropolitan Council Environmental Services, MN

Blue Lake Water Reclamation Facility
Eagles Point Water Reclamation Facility

City of Springfield, MO

Southwest Wastewater Treatment Plant

City of Raleigh Public Utilities Department, NC Little Creek Wastewater Treatment Plant

Spartanburg Water, SC Cowpens

Lower North Tyger

Renewable Water Resources, SC

Slater - Marietta

Knoxville Utilities Board, TN Eastbridge Wastewater Treatment Plant

City of Corpus Christi Wastewater Department, TX

Broadway Wastewater Treatment Plant

El Paso Water Utilities Public Service Board, TX Fred Hervey Water Reclamation Plant

City of Houston, Public Works & Engineering, PUD, TX

White Oaks Wastewater Treatment Plant WCID 76 Wastewater Treatment Plant

City of Amarillo, TX

River Road Water Reclamation Plant

Madison Metropolitan Sewerage District, WI Nine Springs Wastewater Treatment Plant

Platinum

Jefferson County Commission, AL Warrior Wastewater Treatment Plant

County Sanitation Districts of Los Angeles County, CA

San Jose Creek Water Reclamation Plant, West

County Sanitation Districts of Los Angeles County, CA

Valencia Water Reclamation Plant

Johnson County Wastewater, KS Mill Creek Regional

Sanitation District No. 1, KY Ethans Glen Treatment Plant

Massachusetts Water Resources Authority, MA Deer Island Treatment Plant

Wayne County Department of Environment, MI Downriver Wastewater Treatment Facility

Kansas City Water Department, MO Todd Creek Wastewater Treatment Facility

Metropolitan St. Louis Sewer District, MO

Missouri River Wastewater Treatment Plant

City of Eugene, OR

Eugene/Springfield Water Pollution Control Facility

Renewable Water Resources, SC Lower Reedy

Charleston Water System, SC

Plum Island Wastewater Treatment Facility

Hallsdale Powell Utility District, TN

Beaver Creek Wastewater Treatment Plant Raccoon Valley Wastewater Treatment Plant

City of Amarillo, TX

Hollywood Road Wastewater Treatment Plant

San Jacinto River Authority, TX

San Jacinto River Authority Wastewater Treatment Plant No 3

City of Vancouver, WA

Marine Park Water Reclamation Facility Westside Wastewater Treatment Facility

Gold

Anchorage Water & Wastewater Utility, AK

Eagle River Wastewater Treatment Facility John M. Asplund Wastewater Treatment Facility

Jefferson County Commission, AL

Cahaba River Wastewater Treatment Plant Five Mile Creek Wastewater Treatment Plant Leeds (Norman R. Skinner) Wastewater Treatment Plant

Prudes Creek Wastewater Treatment Plant

Little Rock Wastewater, AR

Fourche Creek Wastewater Treatment Plant

Pine Bluff Wastewater Utility, AR Boyd Point Treatment Facility

City of Phoenix, Water Services Department, AZ 23rd Avenue Wastewater Treatment Plant

Pima County Regional Wastewater Reclamation Department, AZ

Marana Wastewater Reclamation Facility
Mt. Lemmon Wastewater Reclamation Facility
Roger Road Wastewater Reclamation Facility

City and County of San Francisco, CA Treasure Island Water Pollution Control Plant

City of Los Angeles, Department of Public Works, CA

Los Angeles-Glendale Water Reclamation Plant Hyperion Treatment Plant

Terminal Island Water Reclamation Plant

City of Riverside Water Reclamation Plant, CA City of Riverside Regional Water Quality

City of Riverside Regional Water Quality Control Plant

City of San Diego Public Utilities Department, CA

North City Water Reclamation Plant

County Sanitation Districts of Los Angeles County, CA

Los Coyotes Water Reclamation Plant Pomona Water Reclamation Plant Saugus Water Reclamation Plant

Whittier Narrows Water Reclamation Plant

Encina Wastewater Authority, CA

Encina Water Pollution Control Facility

Fairfield-Suisun Sewer District, CA

Fairfield-Suisun Sewer District Wastewater Treatment Plant

Orange County Sanitation District, CA

Reclamation Plant No.1 and Treatment Plant No. 2

South Orange County Wastewater Authority, CA

Aliso Creek Ocean Outfall

Union Sanitary District, CA

Alvarado Boege Wastewater Treatment Plant

Vallejo Sanitation and Flood Control District, CA

Vallejo Sanitation and Flood Control District

City of Greeley Water and Sewer Department, CO

Water Pollution Control Facility

City of Pueblo, CO

James R. Dilorio Water Reclamation Facility

Littleton/Englewood Wastewater Treatment Plant, CO

Littleton/Englewood Wastewater Treatment Plant

Metro Wastewater Reclamation District, CO

Metro Wastewater Reclamation District

The Metropolitan District, CT

East Hartford Water Pollution Control Facility

City of Clearwater, FL

East Advanced Wastewater Treatment Facility Northeast Advanced Wastewater Treatment Facility

JEA (Electric, Water & Sewer), FL

Julington Creek Water Treatment Facility

Miami-Dade County Water and Sewer Department, FL

North District Wastewater Treatment Plant South District Wastewater Treatment Plant

City of Augusta Utilities Department, GA

James B. Messerly Water Pollution Control Plant

Macon Water Authority, GA

Rocky Creek Water Reclamation Facility City and County of Honolulu, Department of Environmental Services, HI Honouliuli Wastewater Treatment Plant Kailua Regional Wastewater Treatment Plant

Cedar Rapids Water Pollution Control Facilities, IA

Water Pollution Control Facility

Des Moines Metropolitan Wastewater Reclamation Authority, IA

Wastewater Reclamation Facility

Fox Metro Water Reclamation District, IL

Fox Metro Water Reclamation District North Water Reclamation Facility

Glenbard Wastewater Authority, IL

Glenbard Wastewater Authority

Metropolitan Water Reclamation District of Greater Chicago, IL

Hanover Park Water Reclamation Plant

North Shore Sanitary District, IL

Gurnee Sewage Treatment Plant

City of Fort Wayne, IN

P.L. Brunner Water Pollution Control Plant

City of Lawrence Department of Utilities, KS

Kaw River Wastewater Treatment Plant

Johnson County Wastewater, KS

Douglas L. Smith Middle Basin

Unified Government Wyandotte County, KS

Kansas City Plant #3 Wastewater Treatment Facility

Municipal Treatment Plant No. 20

Louisville & Jefferson County Metropolitan Sewer District, KY

Hunting Creek South Wastewater Treatment Plant Bancroft Water Quality Treatment Plant Cedar Creek Water Quality Treatment Plant Chenoweth Hills Water Quality Treatment Plant Chenoweth Run (Lake Forest) Wastewater

Treatment Plant
Derek R Guthrie Water Quality Treatment Plant
Glenview Bluff Water Quality Treatment Plant
Jeffersontown Water Quality Treatment Plant
Ken Carla Water Quality Treatment Plant
Lake of the Woods Water Quality Treatment Plant
Morris Forman Water Quality Treatment Center
North Hunting Creek

Starview Estates Water Quality Treatment Plant

Sanitation District No. 1, KY

Alexandria Dairy Mart Wastewater Treatment Plant

Charles H. Kelly Elementary School Wastewater

Treatment Plant

Verona Commons Treatment Plant

Walton Industrial Park Wastewater Treatment Plant

New Orleans Sewerage and Water Board, LA

East Bank Wastewater Treatment Plant

West Bank Wastewater Treatment Plant

Springfield Water & Sewer Commission, MA

Springfield Regional Wastewater Treatment Facility

Anne Arundel County Department of Public Works, MD

Broadneck Water Reclamation Facility Maryland City Water Reclamation Facility Patuxent Water Reclamation Facility

Washington Suburban Sanitary Commission, MD

Hyattstown Wastewater Treatment Plant

Marlboro Meadows Wastewater Treatment Plant

${\it Metropolitan Council Environmental Services, MN}$

Empire Water Reclamation Facility

City of Springfield, MO

Northwest Wastewater Treatment Plant

Little Blue Valley, MO

Middle Big Creek Sub-District NW Treat Facility

Kansas City Water Department, MO

Birmingham Wastewater Treatment Plant Blue River Wastewater Treatment Facility Westside Wastewater Treatment Plant

Metropolitan St. Louis Sewer District, MO

Bissell Point Treatment Plant
Fenton Treatment Plant
Lemay Wastewater Treatment Plant
Lower Meramec Treatment Plant

Charlotte Mecklenburg Utilities, NC

McAlpine Creek WWMF

City of Greensboro Water Resources Department, NC

North Buffalo Water Reclamation Facility

Orange Water and Sewer Authority, NC

Mason Farm Wastewater Treatment Plant

Salisbury-Rowan Utilities, NC

Second Creek Wastewater Treatment Plant

Bergen County Utilities Authority, NJ

Edgewater Water Pollution Control Facility Little Ferry Water Pollution Control Facility



New York City Department of Environmental Protection, NY

Hunts Point Water Pollution Control Plant Jamaica Water Pollution Control Plant Tallman Island Water Pollution Control Plant

Onondaga County Dept. of Water Environment Protection, NY

Oak Orchard

City of Columbus Department of Public Utilties, OH

Jackson Pike Wastewater Treatment Plant

City of Toledo, OH

Division of Water Reclamation

Metropolitan Sewer District of Greater Cincinnati, OH

Indian Creek Water Reclamation Facility
Muddy Creek Wastewater Treatment Plant

Northeast Ohio Regional Sewer District, OH

Easterly Wastewater Treatment Plant Southerly Wastewater Treatment Center Westerly Wastewater Treatment Center

City of Tulsa Public Works Department, OK Lower Bird Creek Wastewater Treatment Plant

Regional Metropolitan Utility Authority, OK Haikey Creek Wastewater Treatment Plant

Tulsa Metropolitan Utility Authority, OK Southside Wastewater Treatment Plant

City of Albany, OR

Albany-Millersburg Water Reclamation Facility

City of Portland Bureau of Environmental Services, OR

Tryon Creek Wastewater Treatment Plant

Clean Water Services, OR

Durham Advanced Wastewater Treatment Facility

Allegheny County Sanitary Authority, PA Allegheny County Sanitary Authority

Philadelphia Water Department, PA Southwest Water Pollution Control Plant

Beaufort Jasper Water and Sewer Authority, SC Laurel Bay Wastewater Treatment Plant

Greenwood Metropolitan District, SC
West Alexander Wastewater Treatment Plant

Renewable Water Resources, SC Grove Creek

Pelham Piedmont Spartanburg Water, SC

Clifton Converse

Fairforest

Page Creek

South Tyger

City of Johnson City, TN

Brush Creek Wastewater Treatment Plant Regional Wastewater Treatment Plant

Knoxville Utilities Board, TN

Kuwahee Wastewater Treatment Plant Loves Creek Wastewater Treatment Plant

Metropolitan Government of Nashville & Davidson County, TN

Dry Creek Wastewater Treatment Plant

City of Austin, Austin Water Utility, TX

South Austin Regional Wastewater Treatment Plant

Walnut Creek Wastewater Treatment Plant

City of Houston, Public Works & Engineering, PUD, TX

Cedar Bayou Wastewater Treatment Plant Chocolate Bayou

Clinton Park Wastewater Treatment Plant
Easthaven Wastewater Treatment Plant
Forest Cove Wastewater Treatment Plant
Greenridge Wastewater Treatment Plant
Imperial Valley Wastewater Treatment Plant
Intercontinental Airport Wastewater
Treatment Plant

Keegans Bayou Wastewater Treatment Plant
Kingwood Central Wastewater Treatment Plant
Kingwood West Wastewater Treatment Plant
Northbelt Wastewater Treatment Plant
Northeast Wastewater Treatment Plant
Northgate Wastewater Treatment Plant
Sims Bayou South Wastewater Treatment Plant
Southeast Wastewater Treatment Plant
Tidwell Timbers Wastewater Treatment Plant
West District Wastewater Treatment Plant

Gulf Coast Waste Disposal Authority, TX 40-Acre Facility

Odessa South Regional Wastewater Treatment Facility

North Texas Municipal Water District, TX

Farmersville Wastewater Treatment Plant #2 Floyd Branch Wastewater Treatment Plant Muddy Creek Wastewater Treatment Plant Panther Creek Wastewater Treatment Plant Rowlett Creek Wastewater Treatment Plant Sabine Creek Wastewater Treatment Plant Stewart Creek West Wastewater Treatment Plant

San Antonio Water System, TX

Medio Creek Water Recycling Center

San Jacinto River Authority, TX

San Jacinto River Authority Wastewater Treatment Plant No 1

Trinity River Authority of Texas, TX

Mountain Creek Regional Wastewater Treatment Plant

Upper Trinity Regional Water District, TX

Riverbend Regional Water Reclamation Plant

Timpanogos Special Service District, UT

Timpanogos Special Service District

Hampton Roads Sanitation District, VA

Atlantic Sanitary Treatment Plant Chesapeake-Elizabeth Sanitary Treatment Plant Mathews Courthouse Sanitary Treatment Plant West Point Sanitary Treatment Plant

York River Sanitary Treatment Plant

Prince William County Service Authority, VA

H.L. Mooney Water Reclamation Facility

Western Virgina Water Authority, VA

Roanoke Regional Water Pollution Control Plant

City of Tacoma Public Works Department, WA Treatment Plant 1 (Central Treatment Plant)

King County Department of Natural Resources and Parks, WA

Vashon Treatment Plant

Lakehaven Utility District, WA

Lakota Wastewater Treatment Plant Redondo Wastewater Treatment Plant

LOTT Clean Water Alliance, WA

Budd Inlet Treatment Plant

Silver

Anchorage Water & Wastewater Utility, AK Girdwood Wastewater Treatment Facility

Jefferson County Commission, AL

Trussville Wastewater Treatment Plant

City of Little Rock Wastewater Utility, AR

Little Maumelle Wastewater Treatment Plant

City of Phoenix Water Services Department, AZ

91st Avenue Multi-Cities Wastewater Treatment Plant

Ina Road Wastewater Reclamation Facility



City and County of San Francisco, CA

Southeast Water Pollution Control Plant

City of Thousand Oaks, CA

Hill Canyon Wastewater Treatment Plant

County Sanitation Districts of Los Angeles County, CA

San Jose Creek Water Reclamation Plant, East

San Jose/Santa Clara Water Pollution Control Plant, CA

San Jose/Santa Clara Water Pollution Control Plant

South Orange County Wastewater Authority, CA

San Juan Creek Ocean Outfall

The Metropolitan District, CT

Hartford Water Pollution Control Facility Poquonock Water Pollution Control Facility Rocky Hill Water Pollution Control Facility

D.C. Water & Sewer Authority, DC

Blue Plains Wastewater Treatment

City of Clearwater, FL

Marshall Street Water Reclamation Facility

JEA (Electric, Water & Sewer), FL

Buckman Water Reclamation Facility
District II Water Reclamation Facility
Jax Heights WWater Reclamation Facility
Royal Lakes Wastewater Treatment Plant
San Jose Wastewater Treatment Plant
Southwest Wastewater Treatment Facility

Gwinnett County Water Resources, GA

Yellow River Water Reclamation Facility

Macon Water Authority, GA

Lower Poplar Street Water Reclamation Facility

City and County of Honolulu, Department of Environmental Services, HI

Wahiawa Wastewater Treatment Plant

Waianae Wastewater Treatment Plant

American Bottoms Regional Wastewater Treatment Facility, IL

American Bottoms Regional Wastewater Treatment Facility

Flagg Creek Water Reclamation District, IL

 ${\it John\,A\,McElwain\,Water\,Reclamation\,Plant}$

Fox River Water Reclamation District, IL

Albin D. Pagorski Water Reclamation Facility

Metropolitan Water Reclamation District of Greater Chicago, IL

John E. Egan Water Reclamation Plant

Sanitary District of Decatur, IL

Sanitary District of Decatur

Thorn Creek Basin Sanitary District, IL

Thorn Creek Basin Sanitary District

Urbana & Champaign Sanitary District, IL

Southwest Wastewater Treatment Plant

Wheaton Sanitary District, IL

Wheaton Sanitary District

Gary Sanitary District, IN

Gary Sanitation District

Valparaiso Water Reclamation Department, IN

Elden Kuehl Pollution Control Facility

City of Olathe, KS

Cedar Creek Wastewater Facility

Harold Street Treatment Facility

Johnson County Wastewater, KS

Myron K. Nelson

New Century Air Center

Tomahawk Creek

Unified Government Wyandotte County, KS

Municipal Treatment Plant No.14

Municipal Wastewater Treatment Plant No. 1 (Kaw Point)

Wolcott Wastewater Treatment Facility

Louisville & Jefferson County Metropolitan Sewer District, KY

Berrytown Water Quality Treatment Plant
Floyds Fork Water Quality Treatment Plant
Hite Creek Water Quality Treatment Plant
McNeely Water Quality Treatment Plant
Silver Heights Water Quality Treatment Plant
Shadow Wood Water Quality Treatment Plant
Timberlake Water Quality Treatment Plant

Sanitation District No. 1, KY

Eastern Regional Water Reclamation Facility Rivershore Farms Treatment Plant

Massachusetts Water Resources Authority, MA

Clinton Treatment Plant

South Essex Sewerage District, MA

South Essex Sewerage District

Anne Arundel County Department of Public Works, MD

Cox Creek Water Reclamation Facility

 $Washington\ Suburban\ Sanitary\ Commission,\ MD$

Piscataway Wastewater Treatment Plant

Western Branch Wastewater Treatment Plant

Metropolitan Council Environmental Services, MN

Metropolitan Water Reclamation Facility

Kansas City Water Department, MO

Fishing River Wastewater Treatment Plant Rocky Branch Wastewater Treatment Plant

Little Blue Valley Sewer District, MO

LBVSD Atherton Plant

Metropolitan St. Louis Sewer District, MO

Coldwater Creek Wastewater Treatment Plant

Grand Glaize Treatment Plant

Charlotte Mecklenburg Utilities, NC

Irwin Creek Wastewater Treatment Plant

Sugar Creek Wastewater Treatment Plant

Metropolitan Sewerage District-Buncombe County, NC

French Broad River Water Reclamation Facility

Water & Sewer Authority of Cabarrus County, NC

Muddy Creek Wastewater Treatment Plant

Joint Meeting of Essex & Union Counties, NJ $\,$

Joint Meeting of Essex and Union Counties

Passaic Valley Sewerage Commissioners, NJ Passaic Valley Sewerage Commissioners

New York City Department of Environmental Protection, NY

Bowery Bay Water Pollution Control Plant

Coney Island Water Pollution Control Plant

Newtown Creek Water Pollution Control Plant

Oakwood Beach Water Pollution Control Plant Red Hook Water Pollution Control Plant

Rockaway Water Pollution Control Plant

Onondaga County Dept. of Water Environment Protection, NY

Baldwinsville Senica Knolls Wastewater Treatment Plant

Wetzel Road Wastewater Treatment Plant

City of Akron Public Utilities Bureau, OH

Water Pollution Control Division

City of Canton, OH

Water Reclamation Facility

City of Columbus, Department of Public Utilities, OH

Southerly Wastewater Treatment Plant

Metropolitan Sewer District of Greater

Cincinnati, OH
Little Miami Treatment Plant

Mayflower Wastewater Treatment Plant

Polk Run Wastewater Treatment Plant

Puerto Rico Aqueduct and Sewer Authority, PR

Aguada Regional Wastewater Treatment Plant Las Marias Wastewater Treatment Plant Maricao Waste Water Treatment Plant Mayagüez Regional Wastewater Treatment Plant

Narragansett Bay Commission, RI

Bucklin Point Wastewater Treatment Facility Field's Point Wastewater Treatment Facility

Beaufort Jasper Water & Sewer Authority, SC

Cherry Point Water Reclamation Facility Hardeeville Wastewater Treatment Plant Port Royal Island Water Reclamation Facility

Renewable Water Resources, SC

Durbin Creek Gilder Creek

Spartanburg Water, SC

Fingerville Pacolet Mills

City of Johnson City, TN

Knob Creek Wastewater Treatment Plant

Knoxville Utilities Board, TN

Fourth Creek Wastewater Treatment Plant

Metropolitan Government of Nashville & Davidson County, TN

Central Wastewater Treatment Plant

City of Corpus Christi Wastewater Department, TX

Greenwood Wastewater Plant Laguna Madre Wastewater Treatment Plant

City of Houston, Public Works & Engineering, PUD, TX

69th Street Wastewater Treatment Plant Almeda Sims

Beltway Wastewater Treatment Plant
FWSD 23 Wastewater Treatment Plant
Metro Central Wastewater Treatment Plant
MUD 203 Wastewater Treatment Plant
Northwest Wastewater Treatment Plant
Park Ten Wastewater Treatment Plant
Sims Bayou North Wastewater Treatment Plant
Turkey Creek Wastewater Treatment Plant
WCID 111 Wastewater Treatment Plant
WCID 47 Wastewater Treatment Plant
Westway Wastewater Treatment Plant
Willowbrook Regional Wastewater Treatment

El Paso Water Utilities-Public Service Board, TX

Haskell R. Street Wastewater Treatment Plant Roberto R. Bustamante Wastewater Treatment Plant

${\sf Gulf\,Coast\,Waste\,Disposal\,Authority,\,TX}$

Bayport Water Facility

Plant

North Texas Municipal Water District, TX

Bear Creek Wastewater Treatment Plant
Buffalo Creek Wastewater Treatment Plant
Crandall Wastewater Treatment Plant
Squabble Creek Wastewater Treatment Plant
Wilson Creek Wastewater Treatment Plant

San Jacinto River Authority, TX

San Jacinto River Authority Wastewater Treatment Plant No 2

Hampton Roads Sanitation District, VA

Central Middlesex Sanitary Treatment Plant James River Sanitary Treatment Plant Urbanna Sanitary Treatment Plant

Hanover County Department of Public Utilities, VA

Doswell Wastewater Treatment Plant Hanover Courthouse Sanitary Treatment Plant

City of Everett, WA

Water Pollution Control Facility

King County Department of Natural Resources and Parks, WA

Carnation Water Reclamation Plant

Green Bay Metropolitan Sewerage District, WI De Pere