



**SOLID WASTE
MANAGEMENT
CONSULTANTS**

WASTE OUTLOOK

Gershman, Brickner & Bratton, Inc. • SUMMER 2016

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GBB Helps Guam Achieve a Key Milestone: Final Closure of Ordot Dump

In a 2008 Court Order, U.S. District Court Judge Frances M. Tydingco-Gatewood tasked GBB with the 180-degree turnaround of a completely dysfunctional solid waste management system while closing a dump that has been open for nearly 70 years. She appointed GBB to be Receiver with full responsibility for bringing the Guam Solid Waste Management Division, now the Guam Solid Waste Authority (GSWA), into compliance with a 2004 Consent Decree for violation of the Clean Water Act.

Working diligently with public works, financial departments, the military, private waste haulers, and other stakeholders in Guam, the GBB receivership has opened a new landfill and is on a path to comply with all of the terms of the Consent Decree in the most cost-effective and expeditious manner possible. This has been accomplished under the



"It was 16 years ago that the consent decree was filed by the appropriate parties. It [Ordot Dump] is finally closed and I am very, very happy."

Statement from Chief Judge Frances Tydingco-Gatewood at a ceremony held for the final environmental closure of Ordot Dump

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GBB and Stern Brothers & Co. Announce Renewable Energy from Waste Agreement

Stern Brothers & Co. (Stern) and GBB entered into a strategic agreement that will advance Waste-to-Energy (WTE) infrastructure and alternative energy projects. Under the advisory relationship agreement, GBB supports Stern's execution of transactions by providing strategic industry consulting, industry research, project due diligence, financial analysis and other functions related to the development of energy and infrastructure projects.

Stern is an independent, certified woman-owned business enterprise (WBE) investment bank whose sole focus is public and infrastructure finance. Founded in 1917, the firm specializes in creating customized financing solutions for public and private borrowers, and is committed to having a team of experienced banker's structure innovative financings that meet its client's goals.

Stern's Energy and Infrastructure Finance Group specializes in using tax-exempt

Stern Brothers & Co.

"This is a natural joint venture that creates valuable synergies as both firms have extensive complementary experience and fields of expertise.

We're happy to join forces with the GBB team on renewable energy financing projects, providing clients with resources, knowledge and expertise that are second to none."



John May
Stern Managing Director and
Co-Head of the
Renewable Energy Practice

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GBB News

Sam Lybrand Joins GBB as Principal Associate



Samuel M. Lybrand has joined GBB as a Principal Associate. He brings over 35 years of in-depth knowledge and private-sector experience establishing and operating integrated solid waste collection, transfer, recycling, landfill, and waste-to-energy. His diverse skillset includes management, logistics, operations, sales, financial, project management and business development. Recent experience includes:

- Establishing and managing transportation, logistics and disposal operations for a large full-service waste management company providing solid waste collection, recycling and disposal services to commercial, industrial, municipal and residential customers;
- Developing and implementing marketing, business and operations improvement plans for a large company providing solid and special waste collection, recycling, transfer, and treatment and disposal services; and
- Conducting business development and marketing efforts for disposal facilities including the preparation of marketing plans, competitive analysis, operating assumptions and review of potential acquisition opportunities for a large recycling and waste disposal services provider.

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GBB Helps Guam Achieve a Key Milestone: Final Closure of Ordot Dump

guidance of the Court and in consultation with the U.S. Environmental Protection Agency (U.S. EPA) and the Guam Environmental Protection Agency (Guam EPA.)

On March 28, 2016, a key milestone of the receivership was reached - the U.S. District Court of Guam held a hearing that officially concluded the closure of the Ordot Dump. This Dump was in operation from the 1940s until August 31, 2011 and polluted the Lonfit River in violation of the Clean Water Act. As Receiver, GBB oversaw the design of an approved plan that met all of the legal and environmental requirements of the Federal and Territorial Governments.

“The plan provides for the legally required 30-year post-closure care of the facility. This includes monitoring groundwater, leachate collection and control, methane gas collection and control, and the financial controls to assure that the funding will be available to carry out these activities,” said Chris Lund, PE, PSS, GBB Senior Vice President acting as Receiver Senior Project Engineer for this important assignment. “Leachate, which had been leaking out of the Ordot Dump and polluting the Lonfit River, is now being captured and diverted to a waste water treatment facility for proper treatment. The environmental closure of the Ordot Dump also captures harmful

methane, and carbon dioxide gases, both greenhouse gases that contribute to climate change.”

Since 2008, Mr. Lund has performed the receivership’s day-to-day project management, engineering, planning, and permit compliance and quality assurance review and analysis for engineering design, conducting landfill permitting and compliance reporting, regulatory review coordination, and construction management. He has executed construction procurements resulting in more than \$150 million of services that included construction of a new landfill, operations and dump closure projects, development of a permanent household hazardous waste facility, and the renovation and new construction of four transfer station facilities.

For more information about the receivership:

Ordot Dump ‘officially closed’

Pacific Daily News article and video
March 28, 2016
www.tinyurl.com/DumpClosure

Guam Solid Waste Receivership Information Center

www.guamsolidwastereceiver.org

Guam Solid Waste Authority

www.guamsolidwasteauthority.com



GBB Senior Vice President Chris Lund at the Ordot closure west slope.



Ordot closure channel relocation inspection. From left to right: Scott Purdy (Construction Quality Assurance Contractor, Geo-Logic Associates); Conchita Taitano (Air & Land Division Administrator, Guam EPA); Jun Quezada (Water Pollution Control Program Inspector, Guam EPA), Bill Coughlin (Stream Construction Specialist, Western Stream Works); and Chris Lund.

Speakers' Corner

"Bio-Digester Case Study and Organics Reuse"

Steve Simmons, GBB Vice President, made this presentation in June 2016 at the Reuse Summit, an event organized by the Partnership for a Green City, a sustainability collaboration of the Louisville Metro Government, the Jefferson Community & Technical College, the Jefferson County Public Schools, and the University of Louisville, KY.

View a PDF of the presentation:
www.gbbinc.com/SimmonsReuseSummit2016



"RFP Writing for Municipal Solid Waste & Recycling Professionals - Minimizing Risk, Maximizing Rewards"

In late April 2016, the Municipal Waste Management Association, the environmental affiliate of The United States Conference of Mayors, presented a webinar from Lori Scozzafava, GBB Vice President, who shared tips and best practices to approach procurement processes from a strategic standpoint in order to generate responses that will help communities minimize liability and losses, and maximize their return on investment.

View a PDF of the presentation:
www.gbbinc.com/ScozzafavaMWMA2016



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GBB and Stern Brothers & Co. Announce Renewable Energy from Waste Agreement

and taxable bonds to optimize the debt structure and equity returns of developers seeking non-recourse project financing for energy and alternative energy projects. Stern also acts as a financial advisor to companies seeking corporate and project equity, and joint venture partners. Stern has offices in Atlanta, Chicago, Cleveland, Denver, Houston, Kansas City, Los Angeles, New York, New Jersey, Oregon, St. Louis and Tampa.

GBB brings great expertise and advice to Stern. Having worked on approximately 200 assignments involving utilization of waste for its energy content since 1980, and tracking 475+ alternative conversion technology companies, GBB has a significant amount of WTE and conversion technologies (CT) experience. This includes a number of initial feasibility studies, economic analyses to vendor negotiations, assisting in financing activities by coordinating the process and preparing the feasibility reports for the official statements, and monitoring construction and commercial operations as well.

For more information about the firms:

Stern's website: www.sternbrothers.com

GBB's website: www.gbbinc.com

"GBB's combination of energy and solid waste management experience enables us to evaluate technologies and operations, including the potential to use alternative fuels and provide recommendations that take into account technical, legal, and economic issues.

Joining forces with Stern, one of the top renewable energy bankers in the country, further advances and enhances the range of services that we both offer to renewable energy industry players."

Harvey Gershman
 GBB President and co-Founder



Upcoming Events

GBB will be present at the following industry events. We look forward to seeing you there!

WASTECON

Indianapolis, IN
 August 22-25, 2016
 GBB - Booth #1219

John Carlton, Speaker

"WTE on a Very Small Scale: The Metlakatla Indian Community Experience"

Harvey Gershman, Speaker

"WTE: A 30-Year Evaluation on Why Projects Succeeded or Failed"

John Carlton, Moderator

"Yard Waste Composting Versus Landfill Gas Recovery - The Iowa Story: What Really Happened"

John Carlton, Speaker

"How to Measure Recycling Program Success in the Era of the Changing Ton"

Resource Recycling Conference

New Orleans, LA
 August 30 - Sept. 1, 2016

Harvey Gershman, Speaker

"MRFs in the Single-Stream"

Waste360 Recycling Summit

Austin, TX
 September 19-21, 2016

Brad Kelley, Speaker

"Is Mixed Waste Processing Dead?"

Visit the conference / tradeshow section of our website for an updated list!

Recent GBB Assignments

In the past few months, GBB has been selected for several new assignments, including:

- **Collection Efficiency Evaluation and Automation**
City of Aiken, SC
(as subcontractor to Smith+Gardner)
- **Recycling and Refuse Service Survey**
City of Broken Arrow, OK
- **Development of Long-Term Integrated Waste Management Plan**
Lee County, FL
(as subcontractor to Tetra Tech)
- **Independent Review of a Materials Recycling Facility**
Mecklenburg County, NC
- **Glass Marketing Study**
Ocean County, NJ
(as subcontractor to Hatch Mott MacDonald, LLC)

We very much appreciate the opportunity to assist these clients with their needs.



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Renewable Energy from Waste Conference: Premier Waste Conversion Industry Event

Now in its fourth year, the Renewable Energy from Waste (REW) Conference will take place November 14-16, 2016 in Long Beach, CA. This premier event is produced by the Recycling Today Media Group, the publisher of Renewable Energy from Waste magazine, and GBB. Established to provide the latest information for the rapidly developing and dynamic waste conversion industry, REW Conference is designed to broaden attendees' understanding of waste conversion technologies and the market trends that are critical to the development of new projects. More than 30 experts will share case studies and real-world experience in planning, implementing and operating successful projects during the 2016 event.

An ideal environment for key industry players to learn, network, and exchange ideas, the conference provides deep insights into technology, markets and application of the technologies that can provide solutions to waste problems. Any business, waste and recycling firm, or government official trying to understand how energy recovery can be part of a waste diversion program will want to attend.

Two full days of sessions will cover a wide range of topics critical to understanding the industry, including:

- The role of waste-to-energy in the circular economy;
- National, state and local market outlooks;
- Fuel processing innovations;
- Structuring effective public-private partnerships; and
- Opportunities for biogas.



Pre-Conference Workshop

Attendees will also have the option to register, with a separate fee, for a half-day pre-conference workshop entitled "From Concept to Reality - Waste Conversion Project Implementation," led and facilitated by GBB. This is a unique opportunity, for public- and private-sector conference attendees, to leverage and further maximize their conference experience by learning from, and exchanging ideas with, industry experts and colleagues with similar experiences in an intimate workshop setting conducive to in-depth discussions.

The workshop will show industry professionals how to cut through the noise and provide the technology overview, permitting and financing considerations, and project procurement approaches needed to successfully implement a waste conversion project that can help your integrated solid waste management system get closer to zero waste to landfill. The afternoon will be broken down into 4 sessions:

- **Status of Waste Conversion Technologies**
Stephen Simmons, GBB Vice President
- **Conducting a Procurement and Development Process**
Harvey Gershman, GBB President
- **Permitting Considerations for Waste Conversion Project**
Chip Clements, P.E., President / Founder of Clements Environmental Corporation
- **Involving an Investment Banker to Raise Equity and Debt**
John May, Stern Brothers & Co Managing Director



We hope to see you there! Visit the conference's website for registration and more information: www.rewconference.com

In the meantime, two key presentations from the 2015 event are available for download:

"Take Aways from 2015 Renewable Energy from Waste Conference"

Harvey Gershman, GBB President; Kristin Smith, REW Managing Editor
www.gbbinc.com/SmithGershmanREWTakeAways2015

"Progress Report on Waste Conversion in North America"

Harvey Gershman, GBB President
www.gbbinc.com/GershmanREW2015